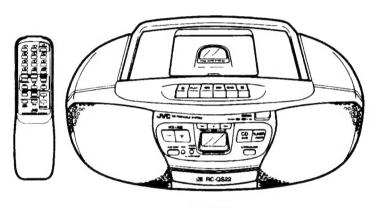
JVC

SERVICE MANUAL

CD PORTABLE SYSTEM

RC-QS22BK B/E/EN/G





RC-QS22

Area Suffix
B
EN Northern Europe

■ Self diagnosis function
This model has a convenient self-diagnosis function CD section.

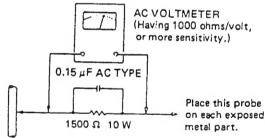
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Safety Precautios

- 1. The design this product contains special hardware and many circuits and components specially for safety purposes. For continued protection, no changes should be made to the original design unless authorized in writing by the manufacturer. Replacement parts must be identical to those used in the original circuits. Service should be performed by qualified personnel only.
- 2. Alterations of the design or circuitry of the product should not be made. Any design alterations of the product should not be made. Any design alterations or additions will void the manufacture's warranty and will further relieve the manufacture of responsibility for personal injury or property damage resulting therefrom.
- 3. Many electrical and mechanical parts in the product have special safety related characteristics. These characteristics are often not evident from visual inspection nor can the protection afforded by them necessarily be obtained by using replacement components rated for higher voltage, wattage, etc. Replacement parts which have these special safety characteristics are identified in the parts list of service manual. Electrical components having such features are identified by shading() and() on the schematic diagram and by () on the parts list in the service manual. The use of a substitute replacement which does not have the same safety characteristics as the recommended replacement part shown in the parts list of service manual may create shock, fire, or other hazards.
- 4. The leads in the products are routed and dressed with ties, clamps, tubings, barriers and the like to be separated from live parts, high temperature parts, moving parts and or sharp edges for the prevention of electric shock and fire hazard. When service is required, the original lead routing and dress should be observed, and it should be confirmed that they have been returned to normal, after reassembling.
- 5. Leakage current check (Electrical shock hazard testing)
 - After re assembling the product, always perform an isolation check on the exposed metal parts of the product (antenna terminals, knobs, metal cabinet, screw heads, headphone jack, control shafts, etc.) to be sure the product is safe to operate without danger of electrical shock. Do not use a line isolation transformer during this check.
 - Plug the AC line cord directly into the AC outlet, using a "Leakage current tester", measure the leakage current from each exposed metal part of the cabinet, particularly any exposed metal part having a return path to the chassis, to a known good earth ground. Any leakage current must not exposeed 0.5mA AC(r.m.s.)
 - · Alternate check method
 - Plug the AC line cord directly into the AC outlet. Use an AC voltmeter having 1,000 ohms per volt or more sensitivity in the following manner. Connect a 1,500 ohms 10W resistor paralleled by a 0.15 $\,\mu$ F AC type capacitor between an exposed metal part and a known good earth ground. Measure the AC voltage across the resistor with the AC voltmeter. Move the resistor connection to each



exposed metal part, particularly any exposed metal part having a return path to the chassis, and measure the AC voltage across the resistor. Now, reverse the plug in the AC outlet and repeat each measurement. Any voltage measured must not exceed 0.75V AC(r.m.s.). This corresponds to 0.5mA AC(r.m.s.).

♦ Warning (UK only)

- 1. This equipment has been designed and manufactured to meet international safety standards.
- 2. It is the legal responsibility of the repairer to ensure that these safety standards are maintaintained.
- Repairs must be made in accordance with the relevant safety standards.
- 4. It is essential that safety critical components are replaced by approved parts.
- 5. If mains voltage selector is provided, check setting for local voltage.

Safety Precautios

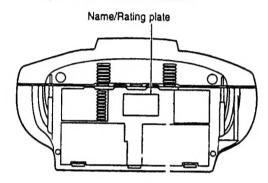
IMPORTANT FOR LASER PRODUCTS

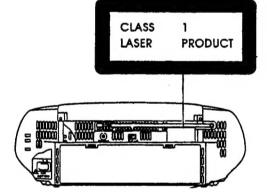
CLASS 1 LASER PRODUCT
DANGER: Invisible laser radiation when open and interlock failed or defeated. Avoid direct exposure to beam.

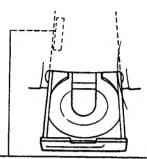
CAUTION: Do not open the rear cover. There are no user serviceable parts inside the unit; leave all servicing to qualified

service personnel.
CAUTION: The compact disc player uses invisible laser radiation and is equipped with safety switches which prevent the emission of radiation when the CD tray is open. It is dangerous to defeat the safety

CAUTION: Use of controls for adjustments and the performance of procedures other than those specified herein may result in exposure to hazardous radiation.







DANGER: Invisible tase ion when open and AVOID DIFFECT EXPOSURE TO BEAM (e)

ADVARSEL: Lityrilg hourstråling ved åbning, når såkertecksitnychre er ude af funktion. Undgåludsatletse for strilling. (0

strålning når de år åggrad och spåren år urkopplad. Betrakta ej (5)

VARO: Avail OLS II SZE alttiina näkymättömälle bsersiteiyle. Ali katso (1) sälessen.

ADVERSEL: Usynlig laserstråling ved åbning, når sikkerhedsafbrydere er ude af funktion. Undgå udsættelse for stråling.

VAROITUS: Varmuuskytkimen oliessa pois päältä kun laite avataan, siellä kehittyy näkymätöbtä lasersäteilä. Älä pane itseäsi säteilyn altiiksi.

VARNING: Osynlig laserståining uppstår vid komponentens öppning när säkerhetsbrytaren är frånslagen.

ADVARSEL: Usynling laserstråling ved åpning når sikkerhetsbryteren er ude af funktion Unngå utsettelse





The lightning flash with arrowhead symbol, within an equilateral tri-angle, is intended to alert the user to the presence of uninsuiated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



The exclamation point within an equilateral triangle is inlended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

IMPORTANT (In the United Kingdom) Mains Supply (AC 230 V ~, 50 Hz only)

DO NOT cut off the mains plug from this equipment. If the plug fitted is not suitable for the power points in your home or the cable is too short to reach a power point, then obtain an appropriate safety approved extension lead or consult your

BE SURE to replace the fuse only with an identical approved

type, as originally fitted and to replace the fuse cover. If nonetheless the mains plug is cut off ensure to remove the fuse and dispose of the plug immediately, to avoid a possible shock hazard by inadvertent connection to the mains supply.

IMPORTANT

DO NOT make any connection to the terminal which is marked with the letter E or by the safety earth symbol or coloured green or green-and-yellow.

The wires in the mains lead on this product are coloured in accordance with the following code:



As these colours may not correspond with the coloured markings identifying the terminals in your plug proceed as

The wire which is coloured blue must be connected to the terminal which is marked with the letter N or coloured black.

The wire which is coloured brown must be connected to the terminal which is marked with the letter L or coloured red.

IF IN DOUBT-CONSULT A COMPETENT ELECTRICIAN.

■ Safety precaution about RC-QW35

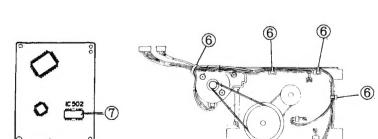
 Check the power transformer marking, and check that the power transformer is securely installed.

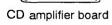
Parts number: V-2409T-B

Check the power cord marking, and check that the powr cord is not externally damaged.

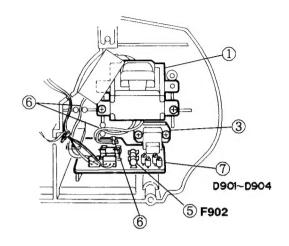
	B VERSION	E/G/GI/EN VERSIO
Cord mark:	BS6500	\triangleleft VDE \triangleright
Attachment plug:	ASTABEF179	KP-419C
Connect plug:	M1250A	KS-15E

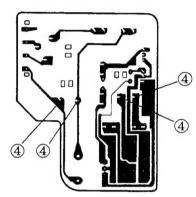
- Check the AC socket marking, and check that the AC socket is tightly fixed in the P.C.board when installed.
 HSC1466.
- 4. Check that there is sufficient space for the primary and adjacent secondary terminal parts on the P.C.board (There should be no protrusions of solder or terminal wires.)
- 5. Check the rated fuse display, and check that the fuse is secure in the fuse holder. F902 P: T2.5 A / 250 V
- 6. Check that the wires are neatly arranged so that they do not interfere with sections involving power, moving parts, heat generation, or those with sharp-edged parts.
- 7. The following parts are important for safety in such operations as those involved with heat generation. Use the specified parts and check original shape. Heat generating parts should be suspended above the P.C.board not fallen down. Parts marked with ______ are safety control parts. <a href="https://linearchy.com/linear



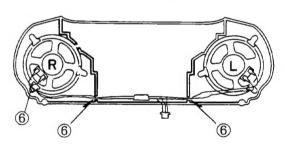


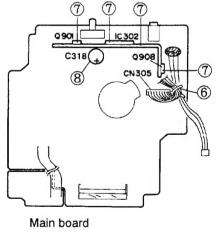
Q908, Q906, IC502, R122, R222,





Power supply board







Instructions

JVC

RC-QW35/QS22B

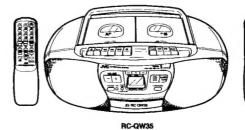
CD PORTABLE SYSTEM

CD PORTABLE SYSTEM

RC-QW35/QS22 B

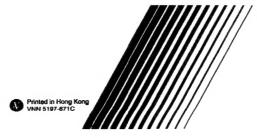








RC-QS22



INSTRUCTIONS

Thank you for purchasing this JVC product. Please read these instructions carefully before starting operation to be sure to obtain optimum performance and a longer service life from the unit

0

(No.1973)

CONTENTS Features Safety precautions Handling precautions Power supply Names of parts and their functions Remote control unit Switching the power on/off Volume and tone buttons Concerning compact discs Playing compact discs Cassette tape 12 Cassette playback 13 Relay playback (RC-QW35 only) Radio reception Recording ... Dubbing (synchro start dubbing) (RC-QW35 only) 17 Maintenance 18 Troubleshooting 19 Specifications 19

CLASS 1 LASER PRODUCT

IMPORTANT FOR LASER PRODUCTS

DANGER: Invisible laser radiation when open and interlock iled or defeated. Avoid direct exposure to beam.

CAUTION: Do not open the rear cover. There are no user serviceable parts inside the unit; leave all servicing to gualified service personnel

CAUTION: The compact disc player uses invisible laser radiation and is equipped with safety switches which prevent the emission of radiation when the CD tray is open. It is dangerous to defeat the safety switches.

5. CAUTION: Use of controls for adjustments and the performance of procedures other than those specified herein may result in exposure to hazardous radiation.

"TO REDUCE THE RISK OF ELECTRIC SHOCK DO NOT REMOVE COVER (OR BACK) NO USER SERVICEABLE PARTS INSIDE REFER SERVICING TO QUALIFIED SERVICE PERSON

CAUTION

RISK OF ELECTRIC SHO



The lightning flash with arrowhead symbol within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's en-closure that may be of sufficient magnitude to constitute a risk of electric shock to persons



The exclamation point within an equilateral triangle is intended to afert the user to the presence of important operating and mainte-nance (servicing) instructions in the literature accompanying the appliance.

FEATURES

power is used)
When a source button (CD, tape, or tuner) is pressed,

IMPORTANT (in the United Kingdom)

Mains Supply (AC 230 V ~, 50 Hz only)

DO NOT cut off the mains plug from this equipment. If the

plug fitted is not suitable for the power points in your home or

the cable is too short to reach a power point, then obtain an

appropriate safety approved extension lead or consult your

BE SURE to replace the fuse only with an identical approved type, as originally fitted and to replace the fuse cover. If nonetheless the mains plug is cut off ensure to remove the fuse and dispose of the plug immediately, to avoid a possible shock hazard by inadvertent connection to the mains supply.

- the unit's power is turned on and initiates playback even
- functions
 - switching.
- playback, Deck B for playback) (RC-QW35)
 Synchro-start dubbing function.
- Seek/manual tuning.

- 6. Beat Cut switch

IMPORTANT

DO NOT make any connection to the terminal which is marked with the letter E or by the safety earth symbol or coloured green or green-and-yellow.

The wires in the mains lead on this product are coloured in accordance with the following code



Blue to N (Neutral) or Black Brown to L (Live) or Red

As these colours may not correspond with the coloured markings identifying the terminals in your plug proceed as

The wire which is coloured blue must be connected to the terminal which is marked with the letter N or coloured black.

The wire which is coloured brown must be connected to the terminal which is marked with the letter L or coloured red.

IF IN DOUBT-CONSULT A COMPETENT ELECTRICIAN.

- 1. One-touch operation (COMPU PLAY) (only when AC
- when the power is set to STANDBY.

 2. 24-key remote control unit opens and closes the motordriven CD tray and operates the usual CD and tuner
 - The remote control controls power ON/OFF switching, volume control, tone control and Bass Boost ON/OFF
- 3. Double cassette mechanism (Deck A for recording and
 - Relay playback (from Deck B to Deck A).
- Single cassette mechanism (RC-QS22) 2-Band digital synthesizer tuner with 30-station (15 FM and 15 AM) preset capability
- Auto preset tuning.
 Bass Boost button for low-frequency sound reproduc-

SAFETY PRECAUTIONS

Prevention of Electric Shocks, Fire Hazards and Damage

- 1. Even when the POWER button is set to STANDBY, a very small current will flow. To save power and for safety when not using the unit for an extended period of time, disconnect the power cord from the household AC outlet.
- Do not handle the power cord with wet hands.
- When unplugging from the wall outlet, always grasp and pull the plug, not the power cord.
- Consult your nearest dealer when damage, disconnection, or contact failure is found with the cord.
- Do not bend the cord sharply, or pull or twist it.
- Do not modify the power cord in any manner.

 Do not remove screws to disassemble the unit and do not
- touch anything inside the unit to avoid accidents. Do not insert any metallic objects into the unit.
- Unplug the power cord when there is a possibility of lightning. 10. If water gets inside the unit, unplug the power cord from the
- outlet and consult your dealer.

 11. Do not block the ventilation holes of the unit so that heat can
- Do not install the unit in a badly ventilated place.
- 12. Since the RC-QW35/QS22 uses a motor-driven CD tray, make sure your hand or other object does not obstruct tray movement.

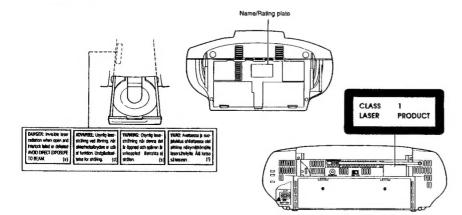
Power button

When the power cord is connected to a household AC outlet. the power indicator is lit red, indicating STANDBY mode (this indicator does not light when DC power is supplied). When the power is switched on, the indicator turns green showing that the power is on (this indicator lights with both AC and DC power supplies).

When this unit is plugged into an AC outlet, it consumes a small current to operate the remote control, or to back up the memory of the microprocessor, even when the POWER button is set to STANDBY.

REPRODUCTION OF LABELS AND THEIR LOCATION

TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.



Do not use this unit in direct sunlight or leave the unit in closed automobiles (or yachts, etc.) where it would be exposed to high temperatures above 40°C.

Avoid installing in the following places. Where it could be subject to vibrations.

- Where it is excessively humid, such as in a bathroom. Where it could be magnetized by a magnet or speaker.

2. Pay attention to dust.

Be sure to close the CD tray so that dust does not collect on the lens.

3. Condensation

- In the following cases, condensation may occur in the unit, in which case the unit may not operate correctly.
- In a room where a heater has just been switched on
- In a place where there is smoke or high humidity When the unit is moved directly from a cold to a warm
- In these cases, set the POWER button to ON and wait 1 or 2 hours before use.

4. Volume setting

Compact discs produce very little noise compared with analog records. When the volume control of an amplifier is adjusted by listening to the noise as is done with analog records, the speakers could be damaged by the sudden increase of output when the music starts. Therefore, turn down the volume before starting and adjust as required while playing a CD.

Safety mechanism

- This unit incorporates a safety interlock mechanism which switches the laser beam on and off, so that when the disc
- tray is open, the laser beam stops automatically.

 Do not place cassette tapes, etc. near the speakers.

 Since there are magnets in the speakers, do not place tapes or magnetic cards on them as recorded data could be erased
- Keep this unit away from your TV. When this unit is used near a TV, the TV picture could be distorted. If this happens, move this unit away from the TV. If this does not correct the situation, avoid using this unit when the TV is turned on.

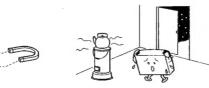
8. Cleaning the cabinet

- If the cabinet gets dirty, wipe it with a soft, dry cloth. Never use benzine or thinner as these could damage the surface
- When listening with headphones

 Do not listen at high volumes as it could damage your hearing. For safety, do not drive while listening to this unit.

10. Carrying handle

Do not raise or lower the carrying handle with the telescopic antenna extended, to avoid damaging the antenna. Place the carrying handle so that it does not interfere with opera-



POWER SUPPLY

A. Operation on household AC

Connect the AC power cord.

CAUTIONS

- 1. ONLY USE WITH JVC POWER CORD PROVIDED WITH THIS UNIT TO AVOID MALFUNCTION OR DAMAGE TO THE UNIT. REMOVE BATTERIES WHEN USING THE POWER CORD.
- 2. BE SURE TO UNPLUG THE POWER CORD FROM THE OUTLET WHEN GOING OUT OR WHEN THE UNIT IS NOT IN USE FOR AN EXTENDED PERIOD OF TIME.

B. Operation on batteries

- Loading batteries
- Open the battery cover by pulling it toward you while pressing the sections marked by the arrows.
- 2. Insert seven "R20/D (13F)" size batteries as shown in the
 - Be careful to insert the batteries with the \oplus and \ominus terminals positioned correctly
- 3. Replace the cover.



Checking batteries

When the tape speed or output sound decreases, or CD playback is intermittent, replace all batteries with fresh ones. When making an important recording, use new batteries (preferably alkaline batteries with a longer service life) to avoid any

For better battery usage Continuous operation of the unit causes the battery power to be consumed quicker than noncontinuous operation. Operation of the unit in a cold place causes the battery power to be consumed more quickly than in a warm place.

CAUTIONS:

- WHEN NOT USING THE UNIT FOR A LONG TIME (MORE THAN TWO WEEKS) OR WHEN ALWAYS USING HOUSHOLD AC, REMOVE THE BATTERIES TO AVOID A MALFUNCTION OR DAMAGE TO THE UNIT. WHEN THE JVC POWER CORD PROVIDED WITH THIS
- UNIT IS CONNECTED, THE POWER IS AUTOMATI-CALLY SWITCHED FROM THE BATTERIES TO THE HOUSEHOLD AC EVEN WHEN THE BATTERIES ARE LOADED. HOWEVER, REMOVE THE BATTERIES WHEN USING THE POWER CORD.

CAUTIONS WHEN USING BATTERIES:

When batteries are used incorrectly, it may result in the leakage of chemicals from the batteries or they may explode. The following care should be taken:

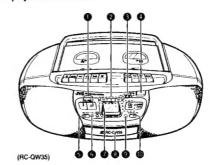
- Check that the positive ⊕ and negative ⊝ terminals of the batteries are positioned correctly and load them as
- shown in the diagram.

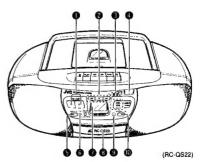
 Do not mix new and old batteries together, or mix different types of batteries.
- Do not try to recharge non-rechargeable batteries.
- Remove the batteries when the unit is not to be used for an extended period of time.

If chemicals from the batteries come in contact with your skin, wash them off immediately with water. If chemicals leak onto the unit, clean the unit completely.

NAMES OF PARTS AND THEIR FUNCTIONS

CD player/General section







VOLUME buttons Search buttons (|) Stop/clear button (=)

Play/pause button (CD/⊳Ⅱ)

POWER indicators
GREEN: POWER ON STANDBY

POWER button BASS BOOST button TONE button Display window

Playback indicator (►) Pause indicator (III)
BASS BOOST indicator (III)
Repeat playback indicator (CALL)
Track number display

6 Playback time display

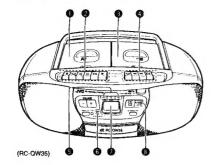
CD tray

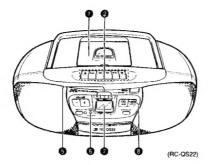
Remote sensor section CD tray open/close button

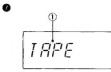
RC-QS22BK

B/E/EN/G

Deck/Tuner section









Cassette holder (Deck A) (RC-QW35)

Cassette holder (RC-QS22)
Cassette operation buttons (from left to right)

REC: Press this button with PLAY/TAPE button to

PLAY/TAPE:

start recording.

Press to play the tape.

Press to rewind the tape rapidly. 44:

Press to wind the tape forward rapidly. -

STOP/EJECT : Press to stop the tape. Pressing this button when the tape has stopped opens the cassette holder.

IIPAUSE: Press to stop the tape momentarily. Press

again to release the pause mode. Cassette holder (Deck B) (RC-QW35)

Cassette operation buttons (from left to right) (RC-QW35) PLAY/TAPE: Press to play the tape.

Press to play the tape.

Press to rewind the tape rapidly.

Press to wind the tape forward rapidly.

STOP/EJECT: Press to stop the tape. Pressing this button when the tape has stopped opens the

cassette holder TUNING buttons (UP/DOWN) PRESET TUNING (•) button AUTO PRESET (—) button

Display window

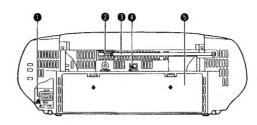
 Tape mode display
 Band indicator (FM/AM)
 Radio frequency Radio frequency display Preset station display

STEREO indicator

MONO indicator
 TUNER (FM/AM) button

Press to select TUNER mode. Press to select the band (FM/AM)

Rear panel



AC IN (AC Input) jack Headphones jack (PHONES) (3.5 mm dia. stereo mini) Connect headphones (with impedance 16 Ω – 1 kΩ) to this jack. The speakers are automatically switched off when the headphones are connected.

Telescopic antenna
BEAT CUT switch
Battery compartment cover

REMOTE CONTROL UNIT

Preparation before use

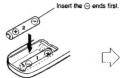
- Installing batteries in the remote control unit

 Remove the battery cover from the back of the remote control unit
- Insert two "R6/AA (15F)" size batteries.
 Insert the batteries with the ⊕ and ⊕ terminals matching the indication inside the battery compartment.
- 3. Replace the cover.

Battery replacement

When the remote control operation becomes unstable or the distance from which remote control is possible becomes shorter, replace the batteries with new ones.







Using the remote control unit

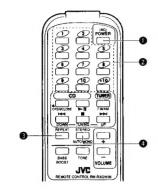
To use the remote control unit, point it at the remote sensor section and press the buttons gently and firmly. Remote control operation is possible within about 7 m (approx. 23 ft). However, since the remote control range is less when the unit is used at an angle, use directly in front of the remote sensor section, as far much possible.

Do not expose the remote sensor section to strong light (direct sunlight or artificial lighting) and make sure that there are no obstacles between the remote sensor section and theremote control unit.

6

The following operations can be performed using the remote control unit.

Check the functions of the operation buttons carefully and operate them correctly.

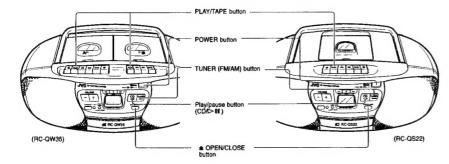


- POWER (AC) button
 - When power is supplied from the batteries, even when the button is pressed, the RC-QW35/QS22 will not be switched on. Switch on the POWER button of the main
- unit first, then perform operations.

 Track (tune) number buttons (No. 1 to No. 10, +10)
 Preset station buttons (No. 1 to No. 10, +10)
- © CD operation REPEAT
- : Repeat playback button
- TUNER operation
 - AUTO/MONO : To select FM mode.
- Buttons without explanation function identically to their respective buttons on the main unit.

When running the main unit on batteries, operate after switching on the main unit POWER button.

SWITCHING THE POWER ON/OFF



Switching the power on/off

· Switching on:



The green indicator lights.

· Switching off:



The red indicator lights. (The indicator does not light when DC power is supplied.)

COMPU PLAY (only when AC power is used)

Even when the power is set to STANDBY, pressing the button shown below switches on the power and selects the source.

	Function mode	Operations
CD ⊳II	CD	When this button is pressed with a CD loaded, CD playback begins.
(RC-QW35) PLÂY Deck A or Deck B PLÂY	TAPE	When this button is pressed with a tape loaded, tape playback begins.
(RC-QS22)	, Ar L	The state of the s
TUNER	TUNER	When this button is pressed, the tuner is engaged.

When the CD tray Open/close (a OPEN/CLOSE) button is pressed, the source sound does not switch over, the CD tray can open or close.

- Notes:

 1. When switching off the power, be sure to press the POWER button. (When the POWER is switched off with the CD tray open, the CD tray is closed and then the power is switched off.)
- Position the front panel away from you when carrying this unit to avoid accidentally pressing the POWER button.

VOLUME AND TONE BUTTONS

VOLUME buttons

+ : Use to increase the volume.

- : Use to decrease the volume. (control range from VOL 0 to VOL 25.)

VOLUME

TONE button

To set the tone level, press this button and adjust using the VOLUME buttons. The level setting ranges are from -6 to 6.



RC-QS22BK B/E/EN/G

CONCERNING COMPACT DISCS

Since dirty, damaged and warped discs may damage the unit, care should be taken of the following:

1. Usable compact discs Use compact discs with the mark shown.

2. Notes on handling discs

10 (No.1973)

- Do not touch the reflective recorded surface.

 Do not stick anything to or write anything on the label
- Do not bend compact discs.

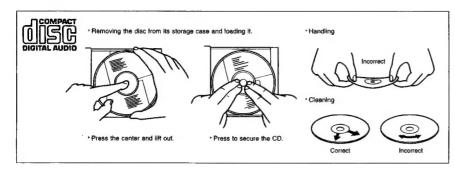
Storage
 After removing a disc from the unit, be sure to put it back

Do not expose discs to direct sunlight, high tempera-tures from a heater, etc., high humidity, or dust.

4. Cleaning discs

Before loading a disc, wipe off any dust, dirt or fingerprints with a soft cloth. Discs should be cleaned by wiping radially,

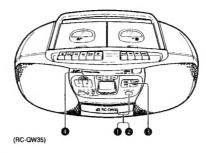
Never use thinner, benzine, record cleaner or antistatic spray.

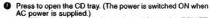


PLAYING COMPACT DISCS

Playing an entire disc ... The following example assumes a compact disc with 12 tunes and a total playing time of 48 minutes 57 seconds.

Operate in the order shown.





AC power is supplied.

When battery power is used, switch on the POWER button first, then perform operations.

Load a disc with the label side facing up. Press to close the

CD tray. (The tray can be closed by pressing the CD/D III hutton 1

Press to Adjust. Press to start play.

8-cm compact discs can be used in this unit without an

When the CD tray is closed by pressing the CD/ID ● button, the CD starts playing as soon as the tray is closed.

| PPI /

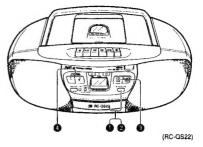
To stop play

· To stop in the middle of a disc During playback, press the m/clear button to stop play.

144



The total number of tracks (tunes) and total playing time



To stop a disc temporarily
Press the CD/t>II button to stop play temporarily. When
pressed again, play resumes from the point where it was paused.

The following indication may be shown when a disc is dirty or scratched, or when the disc is loaded upside down. In such a case, check the disc and insert again after cleaning

when a CD is not loaded in the tray or when "accessor" is displayed, the CD tray opens when the CD/⊳∎ button is



Do not use the unit at excessive high or cold temperatures. The recommended temperature range is from 5°C (41°F) to 35°C (95°F). After playback, unload the disc and close the CD tray, if mistracking occurs during play, lower the volume. Mistracking may occur if a strong shock is applied to the unit or if it is used in a place subject to vibrations (i.e. in a car travelling on a rough road).

Skip playback

During playback, it is possible to skip forward to the beginning of the next tune or back to the beginning of the tune being played or the previous tune; when the beginning of the required tune has been located, play starts automatically.

To listen to the next tune ...
Press the ▶⇒button once to skip to the beginning of the next

To listen to the previous tune ...

Press the dutton to skip to the beginning of the tune being played back and press again to skip to the beginning of the previous tune.

The required position can be located using fast-forward or reverse search while playing a disc.



- Hold down the button; search play starts slowly and then
- gradually increases in speed. Since low-volume sound (at about one quarter of the normal level) can be heard in the search mode, monitor the sound and release the button when the required position is located.

Direct access playback (using the remote control)

- Pressing any of the track number buttons will start play from the beginning of the designated tune, without your having to press the CD ►18 button.
- Press the **S** button to set to the CD mode.

 Press the **S** button to set to the CD mode.

 Designate the required tune using the track number buttons.

 To designate tune numbers 1 to 10, press the track number button corresponding to the tune (track) num-
 - To designate tune number 11 or higher, press the +10 button the required number of times, then the track number button, (Example: To designate the 20th tune, press the +10 button once, then press track number button 10.)
- +10 button:
- Each time this button is pressed, the number increases by 10. First press this button to set the 10's digit, then press the track number button to set the 1's digit.
- To skip to another tune during play
 When the required track number buttons is pressed, the display shows the designated track number and play starts from the beginning of the designated tune.

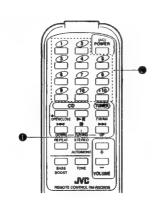
Repeat play (using the remote control)

Press the REPEAT button before or during play. A single tune or all the tunes can be repeated.

Whether a single tune or all tunes are to be repeated can be specified. Each time the REPEAT button is pressed, the mode will change from single tune (ᢏ), to all the tunes (ᢏALL), to the clear mode, in this order.



- Repeat playback of a single tune () The tune being played back will be heard repeatedly
- Repeat playback of all tunes (ALL) When playing back an entire disc, all tunes will be heard



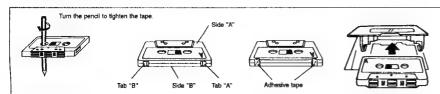
CASSETTE TAPE

Cassette tape

- Loose tape may cause trouble. With a pencil, gently tighten the tape as shown.
- To prevent recordings from being erased accidentally, remove the tab(s) with a screwdriver. Reseal the slots with adhesive tape to erase and re-record after the tabs have

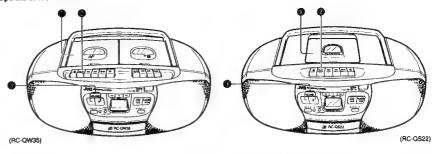
Cassette loading

- 1. Press the m/a STOP/EJECT button to open the cassette
- Load a cassette as shown.
- Close the cassette holder by pressing it gently. Listen for the click that tells you that you've closed the holder securely.



CASSETTE PLAYBACK

Operate in the order shown



- Press to start playback. (The power is switched on, TAPE mode is engaged and tape playback starts.)

 When battery power is used, switch on the POWER button first, then perform operations. Adjust.
- Ptayback in Deck B (RC-QW35 only)
 The previous procedures also apply to Deck B when a cassette is loaded in Deck B. When Decks A and B are simultaneously set to the play mode, only the playback sound of Deck B is heard.

- Notes:
 1. When the power is turned off while the tape is still running, cassette operation buttons which are depressed do not return to the original positions.

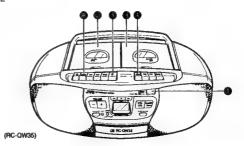
 Press the s/e STOP/EJECT button to stop the tape running
- before turning off the power.

 2. Avoid operating the p> or ◄ button on the deck during playback of the other deck. (RC-QW35)

RELAY PLAYBACK (RC-QW35 ONLY)

(From Deck B to Deck A)

Operate in the order shown.



- Set the POWER button to ON.
- Load a cassette Load a cassett
- Press the PLAY/TAPE button on Deck B.
- Press the INPAUSE button.

 Press the PLAY/TAPE button on Deck A.

When Deck B stops, Deck A's pause mode will be released and it will start playback. When Deck A stops automatically, relay playback will be released.

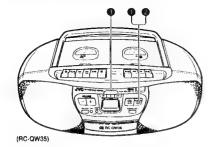
(No.1973) 11

RADIO RECEPTION

12

(No. 1973)

Operate in the order shown.





The power is switched on and a band and radio fre-

quency will be shown in the display.

When battery power is used, switch on the POWER button first, then perform operations.

Select the band (FM or AM). Tune to the required station

STEREO AUTO/MONO button (using the remote con-

Auto mode:

Set to this position when listening to or recording an FM stereo broadcast. The STEREO indicator lights when the FM stereo

MONO:

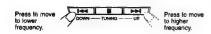
Set to this position when FM stereo reception is noisy. When another station is tuned to in mono mode, the unit automatically enters Auto mode

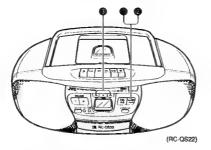
Seek tuning

Press the UP or DOWN button for one second or more; the unit enters the seek tuning mode and tunes In higher or lower frequencies, and when the broadcast ill received, it stops tuning automatically and the broadcast can be heard.

Manual tuning

Each time the UP or DOWN button is pressed, the unit steps through the current frequency band. Tuning is in steps of 50 kHz for FM and 9 kHz for AM.





When seek tuning to the required station is not possible because it is broadcasting too weak a signal, press the UP or DOWN button momentarily to perform manual tuning. When the power is set to STANDBY, or another mode (TAPE

or CD) is selected, the last tuned frequency is stored in memory. When the power is switched on again and TUNER (FWAM) button is pressed, the same station will be heard.

Auto preset tuning

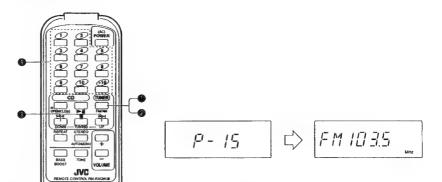
This function scans the current band (FM or AM), detecting frequencies used to broadcast signals, and stores the first 15 frequencies in memory automatically.

Press the AUTO PRESET (—) button for more than 2 seconds. The frequencies of stations broadcasting signals can be preset automatically in the order of increasing frequency (15 stations in each band (FM and AM).

The previous preset station is erased when a new station is set as the new station's frequency replaces the previous frequency in memory.

Presetting stations (using the remote control unit)

15 stations in each band (FM and AM) can be preset as follows: Example (when presetting an FM station broadcasting at 103.5 MHz to preset button "15")



Press the TUNER (FM/AM) button.

Select the FM band using the TUNER (FM/AM) button. Tune to the required station.

Press preset button "+10" then "5" for more than 2 sec. (When "15" blinks in the preset station display, the station has been preset.)

- Repeat the above procedure for each of the other stations, using a different preset button each time. Repeat the above procedure for the AM band.
- To change preset stations
 Perform step above after tuning to the required station.

- The previous preset station is erased when a new station is set as the new station's frequency replaces the previous
- frequency in memory.

 When listening to an AM broadcast, noise may be heard if the remote control is used.
- All preset stations will be erased when a power failure occurs for more than 48 hours or the power cord is unplugged for more than 48 hours. In such cases, preset the stations again.

Preset tuning

· The stations must be preset before this operation can be

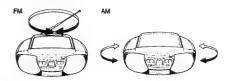
(Using the controls of the main unit)

- Press the TUNER (FM/AM) button.
 Select the band (FM or AM) using the TUNER (FM/AM)
- 3 Press the PRESET TUNING () button to select the required preset station

(Using the remote control unit)

- Press the TUNER (FM/AM) button.
 Select the band (FM or AM) using the TUNER (FM/AM) button.
- 3 Press the required preset station buttons (No. 1-No. 10,
- +10).
 The preset station number and frequency corresponding to the button pressed are shown.

Using the antennas



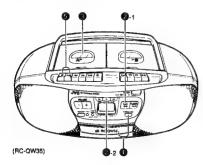
The built-in ferrite core antenna can pick up interference from television receivers in the neighborhood and thereby disturb AM

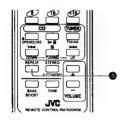
Check that the safety tab on the cassette tape is not broken

To avoid malfunction, do not perform operations on deck # when recording. (RC-QW35)

Synchronized recording with the CD player
In this system, the CD player starts playback when the cassette deck enters the recording mode.

Operate in the order shown.





When automatic spacing between tunes is not reguired ... Perform the following after finishing the previous operation (1) to 1).

1) Press the CD/D-11 button of the CD player twice.

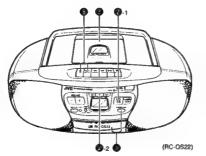
The CD player enters the pause mode.

? Press the • REC and PLAY/TAPE buttons simultared in the pause mode. neously.

Now, the CD player starts playback simultaneously.

Note:

This unit has recording/playback characteristics suitable for normal tapes. Normal tapes have different characteristics from CrO2 and metal tapes



Load a disc and close the CD trav. Set CD mode.

Load a cassette in the deck with side A facing up.
(Wind past the leader tape before starting recording.)
Set repeat mode to an appropriate position if needed. (ς or ◆ ALL)

Press the ◆ REC button with the PLAY/TAPE button; syn-

chronized recording will start.

Non-recorded sections of approx. 4 seconds are automatically left between tunes.

cally left between tunes. When the tape reaches the end first, the CD player stops automatically; when the CD player stops first, the tape continues running. In this case, press the **m**/**a** STOP/EJECT button to stop the tape.

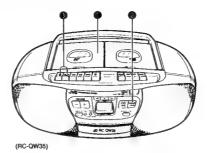
During CD synchro recording, the CD/>III and SEARCH

During CD synchro recording, the GDP is and SEARCH (M44 / ▶→1) buttons do not function.

During CD synchro recording, do not perform operations on Deck B. (RC-QW35 only)

It should be noted that it may be unlawful to re-record pre-recorded tapes, records, or discs without the consent of the owner of copyright in the sound or video recording, broadcast or cable programme and in any literary, dramatic, musical, or artistic work embodied therein.

Recording from the radio Operate in the order shown



Load a cassette with side A facing up.

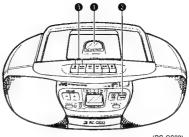
(Wind past the leader tape before starting recording.)

Press the TUNER (FWAM) button. Tune to the required

Press the ● REC button with the PLAY/TAPE button

To stop recording temporarily, press the #IPAUSE button. To resume recording press the #IPAUSE button again.

When recording from the radio, do not perform operations on Deck B. (RC-QW35 only)



(RC-QS22)

BEAT CUT awitch

When recording an AM broadcast, beats may be produced which are not heard when listening to the broadcast, in such a case, set this button after setting the deck to record mode so that the beats are eliminated. Normally set this switch to "NOFIM-1".

Erasing

When recording on a pre-recorded tape, the previous recording automatically erased and only the new material can be heard when the tape is played.

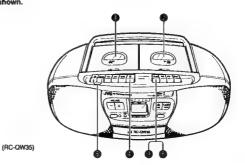
To erase a tape without making a new recording ...

Press the PLAY/TAPE button of the deck to set to the TAPE mode and press the • REC and PLAY/TAPE buttons together after pressing the #/a STOP/EJECT button.

DUBBING (SYNCHRO START DUBBING) (RC-QW35 ONLY)

Normal speed dubbing can be done from Deck B to Deck A.

Operate in the order shown.



Load a cassette. (Refer to the note on page 16.) Load a pre-recorded cassette.

Lightly press the PLAY/TAPE button to set to the TAPE mode. (The button should not be locked.)

Press the IIPAUSE button.

Press the REC button with the PLAY/TAPE button.

(Record-pause mode.)

Press the PLAY/TAPE button. (Synchronized dubbing will start.)

RC-QS22BK

B/E/EN/G

MAINTENANCE

14 (No.1973)

Cleaning is important!

When the tape is running, magnetic powder and dust naturally accumulate on the heads, capstan and pinch roller. When they become too dirty ...
sound quality deteriorates.

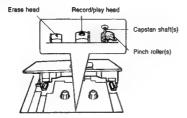
- the output sound level drops

the previous sound level drops.
 the previous sound is not completely erased.
 recording is not performed satisfactorily.
 Because of this, you should clean the heads, etc. every 10 hours of use, so that perfect recording is possible.

Cleaning the heads, capstan and pinch roller

Open the cassette holder. Clean the heads, pinch roller and capstan. For effective cleaning, use a cleaning kit available from an audio

After cleaning, be sure that the cleaning fluid has dried completely before loading a cassette.



Cautions:

- Keep magnets and metallic objects away from the head. If the head becomes magnetized, noise will increase and the tone will deteriorate. Demagnetize the head every 20–30 hours of use with a head eraser (available from an audio store). (When demagnetizing the head, the POWER button should be set to STANDBY).
 - As the erase head of this unit is of magnetic type, do not demagnetize it.
- Do not use anything other than alcohol for cleaning. Thinner and benzine will damage the rubber pinch roller.

TROUBLESHOOTING

What appears to be trouble is not always serious. Make

- 1. Power cannot be turned on.
- is the power cord unplugged?
 No sound from the speakers.
- Are headphones connected?
- CD Player Section
- 3. The CD player does not play.
- Is the disc upside down?
- A certain portion of the disc does not play correctly.
- is the disc scratched?
- Cassette Deck Section

- 5. Playback sound is at a very low level.
- Is the head dirty?

 The

 REC button does not function.
- Have the safety tabs of the cassette been broken off?
- Tuner Section
- 7. Reception is noisy.Try adjusting the antenna.
- Remote Control
- 8. Remote control is impossible.
- Are the batteries in the remote control exhausted? Is the remote sensor section exposed to bright light (direct sunlight, etc.)?

Note: Before making an important recording, be sure to make a test recording first to check that the deck, etc. in working correctly.

SPECIFICATIONS

Compact disc player section

Compact disc player Non-contact optical pickup Type Signal detection

Number of 2 channels

channels : 20 Hz - 20,000 Hz Frequency range

: 90 dB

Signal-to-poise

Wow & flutter : Less than measurable limit

Radio section

: FM: 87.5 - 108 MHz Frequency ranges AM: 522 - 1,629 kHz

Antennas Telescopic antenna for FM Ferrite core antenna for AM

Tape deck section

Track system 4-track 2-channel stereo Motor

Electronic governor DC motor for cap-

Heads (RC-QW35)

Deck A; Hard permalloy head for

recording/playback, Magnetic head for

erasure Deck B: Hard permalloy head for play-

(RC-QS22) Hard permalloy head for recording/ playback, Magnetic head for erasure 80 - 12,500 Hz

Frequency response

Wow and flutter

: 0.15% (WRMS) : Approx. 120 sec (C-60 cassette) Fast wind time

General Speaker

provided

10 cm x 2

Power output

. 10 W (5 W + 5 W) at 3 Ω 8 W (4 W + 4 W) at 3 Ω (10% THD) : Headphones (0 – 20 mW/ch, 32 Ω) Output jacks

Power supply

(matching impedance 16 Ω – 1 kΩ):
AC 230 V, 50 Hz
DC 10.5 V ("R20/D (13F)" cell x 7):
13 W (with POWER button STANDBY)
450 (MN):
450 (M Power consumption

Dimensions 450 (W) x 165 (H) x 250 (D) mm

Weight

including knobs

(RC-QW35)

Approx. 4.9 kg with batteries
Approx. 4.2 kg without batteries
(RC-QS22)

Approx. 4.6 kg with batteries Approx. 3.9 kg without batteries

: AC power cord x 1 Remote control unit (RM-RXQW35) x 1 Accessories

"R6/AA (15F)" batteries x 2 (for the re-

mote control)

Design and specifications are subject to change without notice.

1 Location of Main Parts

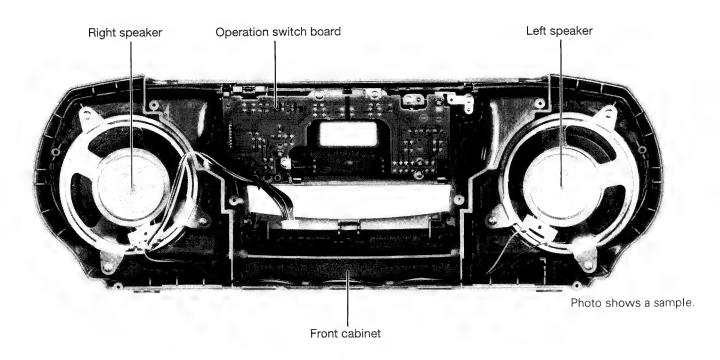


Fig. 1 – 1

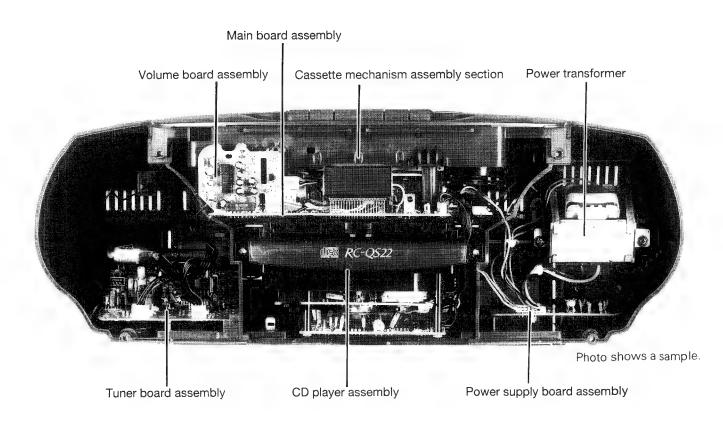
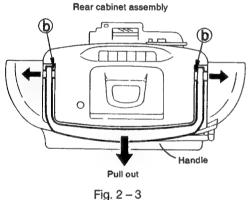


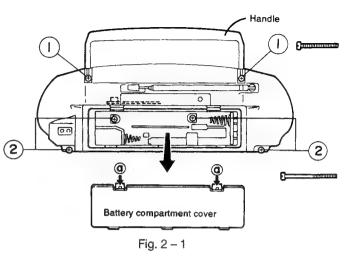
Fig. 1 – 2

Removal of Main Parts

◆ Removing the front and rear cabinet assemblies (Figs. 2-1 to 2-4)

- 1. At the rear of the main unit, press the two claws @ of the battery compartment cover downward to remove the battery cover (Fig. 2-1).
- 2. Remove the two handle mounting screws ① and the four rear cabinet mounting screws 2 . Then remove the front 2 and rear cabinet assemblies (Fig. 2-1).
- 3. Remove the speaker harness coming from the front cabinet assembly and the operation switch board harness connected to the CN704 and CN309 connectors on the main PCB (Fig. 2-2).
- 4. For removing the handle and top cover, extend the rear cabinet outwards (as indicated by the lateral arrows) and it is disengaged from the right and left fittings (b). Then, the handle can be removed in the direction of the arrow (rearwards).





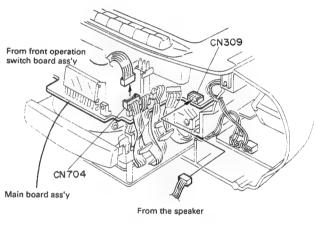


Fig. 2 - 2

◆ Removing the speakers and the operation switch **PCB** (Fig. 2 - 4)

- 1. Remove the three right speaker mounting screws ③ and the speaker brackets. (Remove screws for the left speaker
- 2. Remove the three screws 4 retaining the switch board mounting screws.
- 3. Remove the one screw (5) retaining the speaker earth wire.

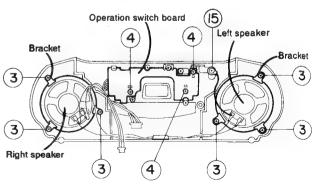


Fig. 2-4

◆ Removing the tuner PCB (Fig. 2 – 5)

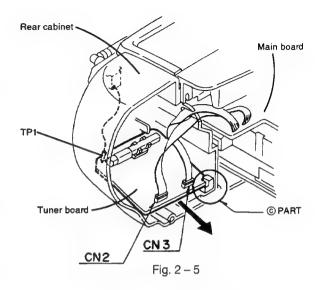
- 1. Remove connectors CN2 and CN3 on the tuner board.
- 2. Remove the antenna wire from TP1.
- Disengage the board from the fitting of part © on the rear cabinet (in the direction shown with the arrow) and pull it out.

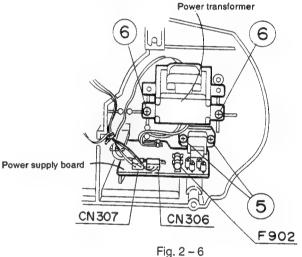
◆ Removing the power transformer and the power supply board (Fig. 2 – 6)

- 1. Remove the two screws ⑤ securing the AC terminal.
- 2. Disconnect the two connectors (CN306 and CN307) on the power supply board.
- 3. Remove the two screws (6) securing the power transformer.
- 4. Pull the power supply board toward you and remove it together with the power transformer.

◆ Removing the volume PCB (Fig. 2 – 7)

- 1. Remove the screw ⑦ securing the volume board
- 2. Disconnect the connector CN310 from main board.





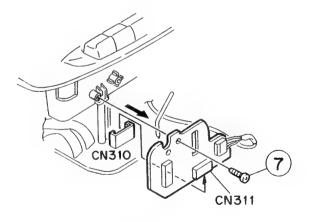


Fig. 2 - 7

RC-QS22BK B/E/EN/G

♦ Removing the CD player assembly (Fig. 2 – 8)

 Remove the harnesses CN701, CN702, CN703 and CN303 from the main board (connectors on main board CN701, CN702, CN703 and CN303).

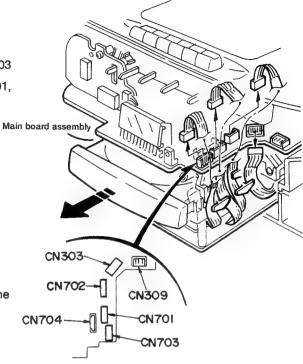


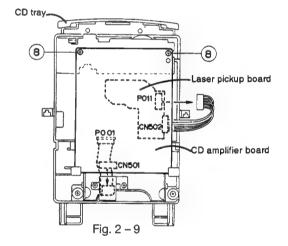
Fig. 2 – 8

◆ Removing the CD amp PCB (Fig. 2 – 9)

- 1. Remove the two screws ® securing the CD amp PCB.
- Remove the harness of connector CN502 from P011 on the pickup PCB.
- 3. Remove the card wire coming from P001 from CN501.

◆ Removing the CD tray (Figs. 2 – 10 and 2 – 11)

- 1. Remove the two screws (9) for the CD tray stopper.
- Turn over the loading base assembly. Insert a Phillips driver in hole A of the CD tray motor assembly and turn the driver counterclockwise. The tray will be released.
- 3. When the tray is released, pull it out by hand.



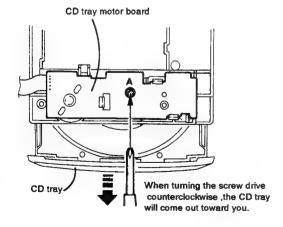
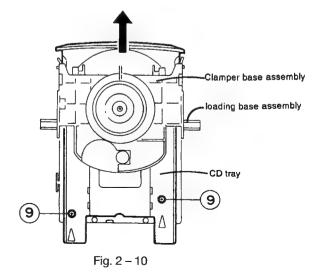


Fig. 2 - 11



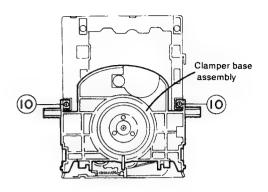
◆ Removing the clamper base assembly (Fig. 2 – 12)
Remove the two screws (⑥ securing the clamper base assembly.

♦ Removing the CD tray motor (Figs. 2 – 13 and 2 – 14)

- 1. Remove the two screws (I) securing the CD tray motor.
- 2. Disengage the belt from the CD tray motor base.
- 3. Turn over the CD tray motor base assembly.
- ☆ Desolder soldered section ① on the CD tray motor PCB.
- ☆ Remove the PCB by opening the three claws ② on the CD tray motor PCB in the direction shown by the arrow.



- 1. Turn over the CD player assembly and remove the two screws ② securing the CD mechanism assembly.
- 2. To remove shaft in the upper part of the CD mechanism assembly from the fitting of section (h) (slot of the slide) of the loading base assembly, pull the CD mechanism assembly diagonally upward toward you.
- ★ To reassemble, move the slide of the loading base assembly in the direction shown with the arrow and insert the shaft in the upper section of the CD mechanism assembly into section ① (slot of the slide).



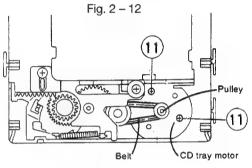
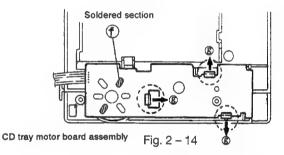


Fig. 2 - 13



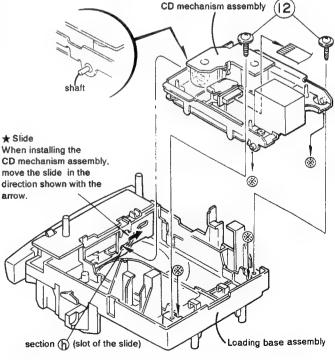


Fig. 2 - 15

RC-QS22BK B/E/EN/G

◆ Removing the cassette mechanism assembly (Fig. 2 – 16)

- 1. Remove the handle (Fig. 2-3).
- 2. Remove the CD player assembly (Fig. 2 8).
- Remove the harness coming from connectors CN702 and FW302 on the main board from connectors CN3 and CN2 on the tuner board.
- 4. Remove the 3 pin connector coming from the main board from connector CN306 on the power supply board.
- Remove the cassette mechanism assembly by pulling it out in the direction shown with the arrow.

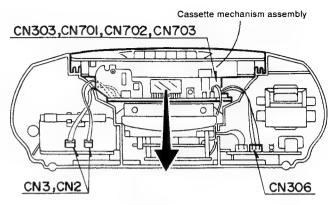
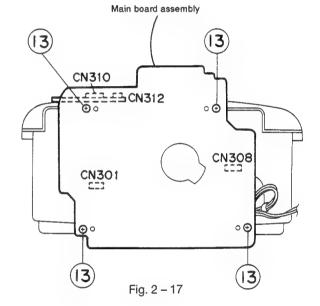


Fig. 2 - 16

◆ Removing the main PCB (Figs. 2 – 17 and 2 – 18)

- 1. Remove the four screws (3) securing the main board from the rear of the cassette mechanism assembly.
- Remove the harness coming from the cassette mechanism from connectors CN301, CN302 and CN305 on the main PCB. When connecting connector CN305, trim the harness by referring to Fig. 2 – 18.
- ☆ The volume board and main board are connected by a harness. To separate the main board completely from the rear cabinet, first remove the volume board. Refer to "Removing the microphone unit and the volume PCB".



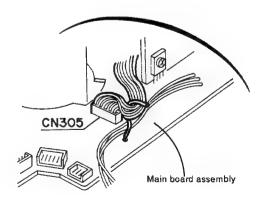


Fig. 2 - 18

♦ Removing the cassette mechanism

(Figs. 2 - 19 and 2 - 20)

1. Press the stop/eject buttons for mechanisms to open the cassette doors (Fig. 2 – 19).

2. Remove the six screws (4) securing the cassette mechanism (Fig. 2 – 20).

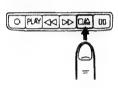
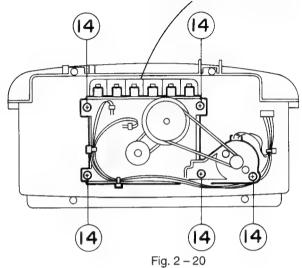


Fig. 2 - 19



Cassette mechanism assembly

◆ Removing the battery contact PCB (Fig. 2 – 21)

- Open the claw (i) securing the battery contact board from the rear of the rear cabinet and pull out the battery contact board toward the rear panel.
- Remove the 2- pin connector coming from the battery contact board from connector CN703 on the power supply board.

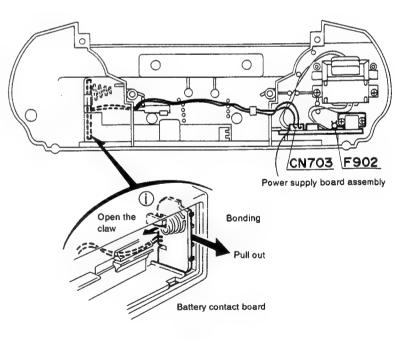


Fig. 2 – 21

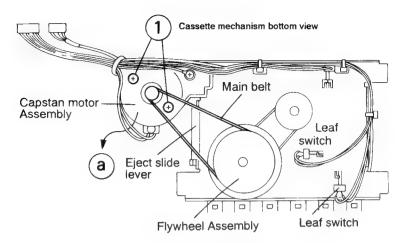


Fig. 2 - 22

◆ Removing the capstan motor (Fig.2-22)

- 1. Separate the front and rear cabinet assemblies.
- 2. Remove the cassette mechanism assembly.
- 3. Remove the main board.
- 4. Remove the main belt from the flywheel assembly of mechanisms,
- 5. Remove the three screws ① securing the capstan motor.

◆ Removing the eject slide lever (Fig.2-23)

- Press the stopper arm with a small minus driver as shown in the figure to release the stopper arm.
- 2. Remove the eject slide lever in the direction shown with the arrow ②.

◆ Removing the leaf switch (Fig.2-24)

- 1. Press the leaf switch in the direction shown with arrow @.
- 2. Remove the leaf switch by pressing it in the direction shown with arrow (a).

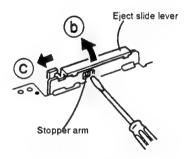


Fig.2-23

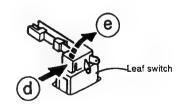
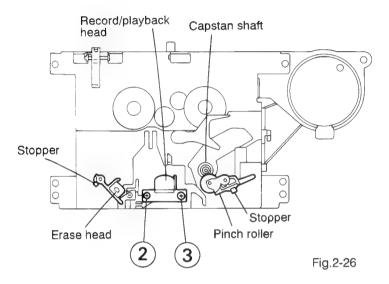
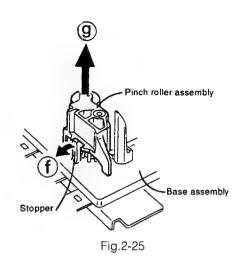


Fig.2-24

◆ Removing the pinch roller (Fig.2-25)

- 1. Detach the stopper from the pinch roller assembly by pulling it in the direction shown with arrow ①.
- 2. Pull out the pinch roller assembly in the direction shown with arrow (§).





◆ Removing the rec/play head and erase head

(Fig.2-26 and 2-27)

- 1. Remove the two screws ② and ③ securing the rec/play head of mechanism.
- 2. Detach the stopper securing the erase head in the direction shown with arrow ①.
- 3. Pull out the erase head in the direction shown with arrow $\ensuremath{\mbox{\ \ \ }}$

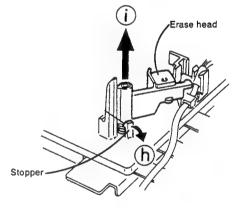
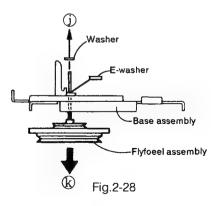


Fig.2-27

♦ Removing the flywheel assembly (Fig.2-28)

- 1. Remove the E washer securing the flywheel assembly and pull the washer out in the direction shown with arrow ①.
- 2. Pull the flywheel assembly from the cassette mechanism in the direction shown with arrow 8.



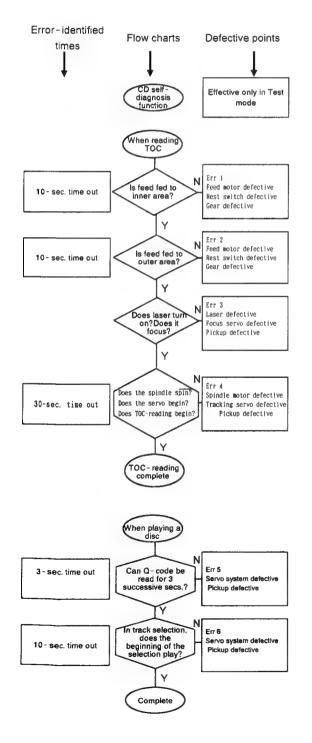
3 Troubleshooting

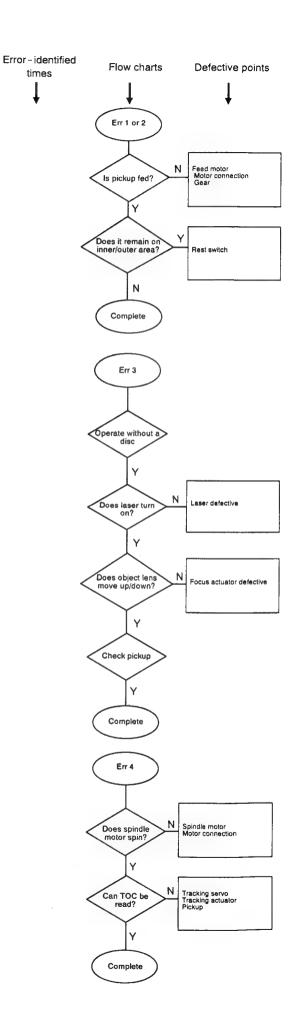
♦ HOW TO OPERATE THE CD SELF -DIAGNOSIS FUNCTION

♦ The CD Self-diagnosis Function

If any malfunction occurs in the CD player, this system can be set to make an error code indication appear on the LCD to point out the defective parts. This efficiently helps service personnel find the causes of the malfunction.

Test mode: CD STOP (■) + POWER ON



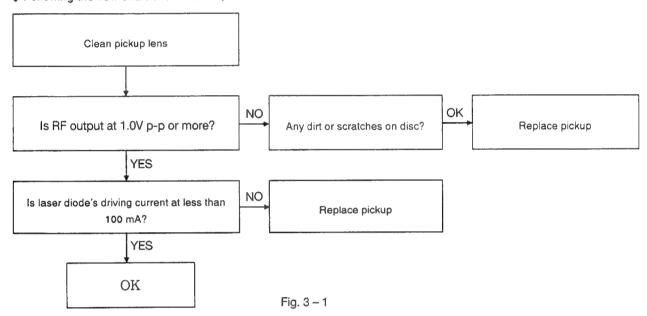


Pickup maintenance

(1) Checking the service life of laser diode

If a laser diode reaches the end of its service life, the following phenomena will show up. Similar symptoms may also appear when the pickuplens becomes too dirty. In this case, clean the lens.

- 1) The RF output (between TP502(RF) and TP501(VREF))
- 2) The driving current, necessary for the laser diode to emit lights, increases. (Calculate from the voltage level at both ends of the R505 at 10 Ω .)
- ◆ Following the flow chart shown below, check the service life.



◆ How to measure laser diode's driving current

After connecting a voltmeter at both ends of the R505(10 Ω), measure the voltage during playback. If the voltage level is at 1.0 V or more, the service life of the laser diode has expired.

Laser diode's driving current (A)

= Voltage level at both ends of R505 (V)/10 (Ω)

When voltage level is at 1.0 V:

 $1.0 \text{ V/} 10 \Omega = 0.1 \text{ A} = 100 \text{ mA}$

Note:

The laser diode easily breaks down. Be sure to turn the power off before connecting a voltmeter.

General descriptions of TOC (Table of Contents) readings

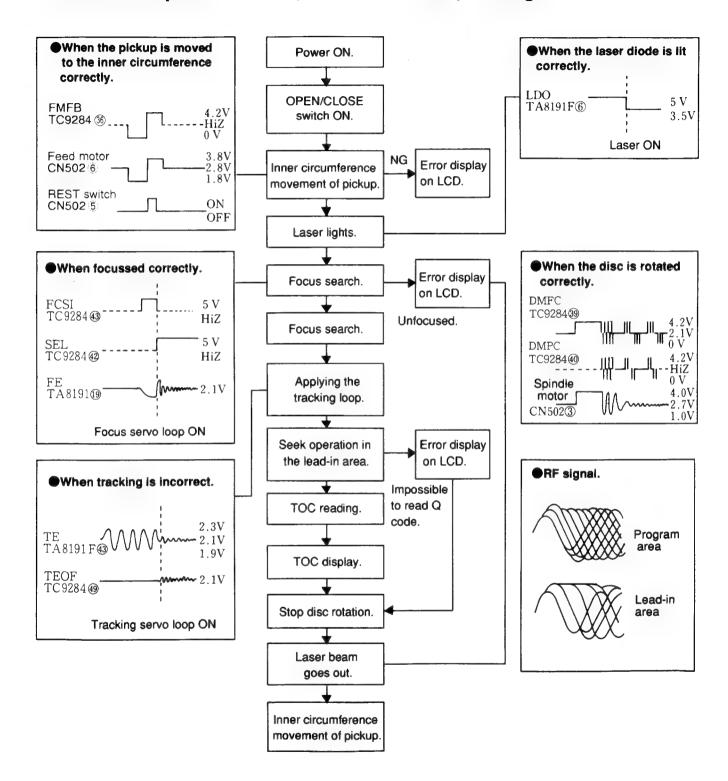


Fig. 3 - 2

■General section

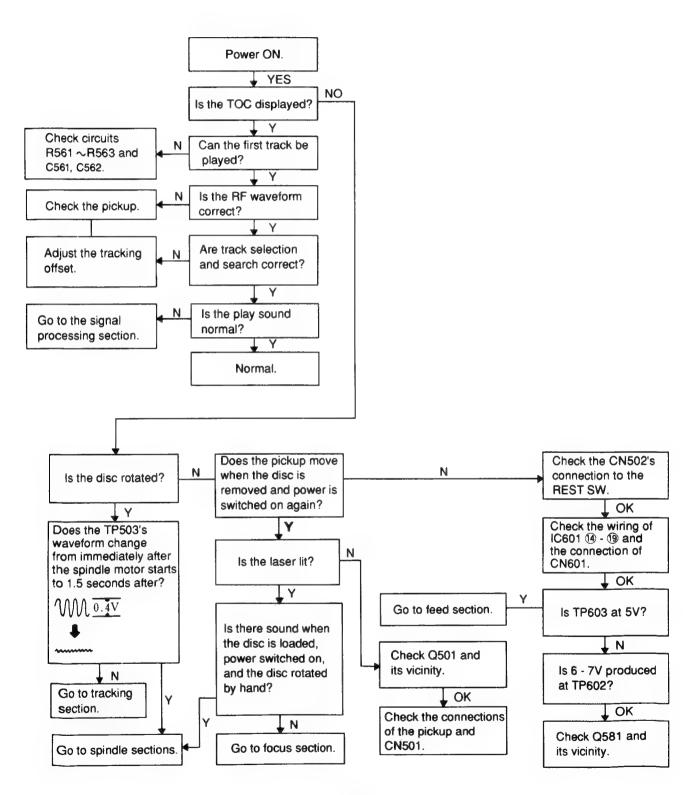


Fig. 3-3

Feed section

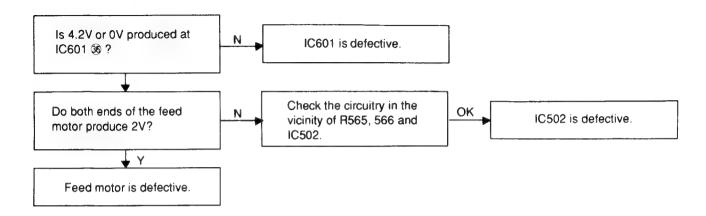


Fig. 3-4

Focus section

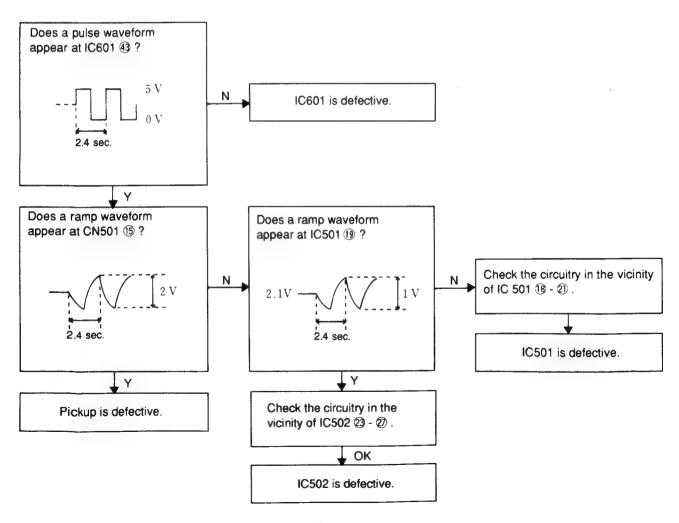


Fig. 3 – 5

Spindle motor section

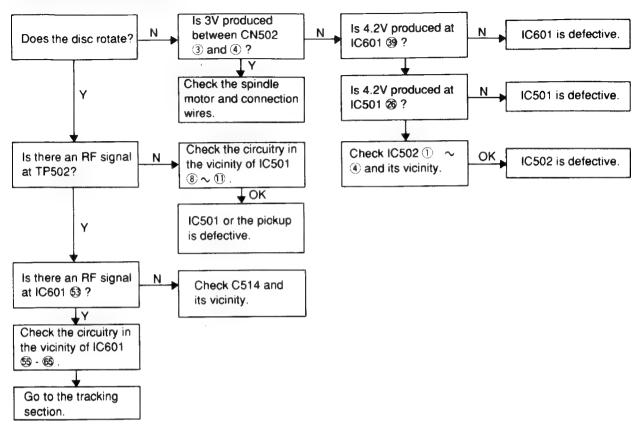


Fig. 3-6

Signal processing section

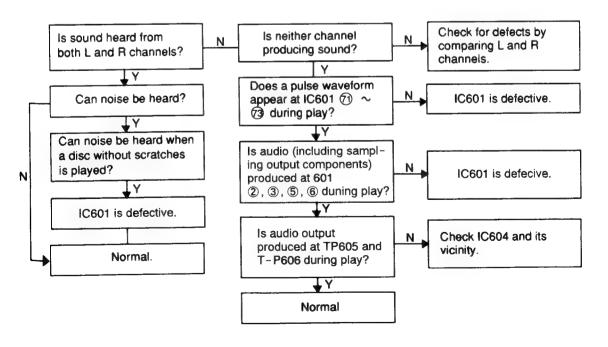


Fig. 3 – 7

■ Tracking section

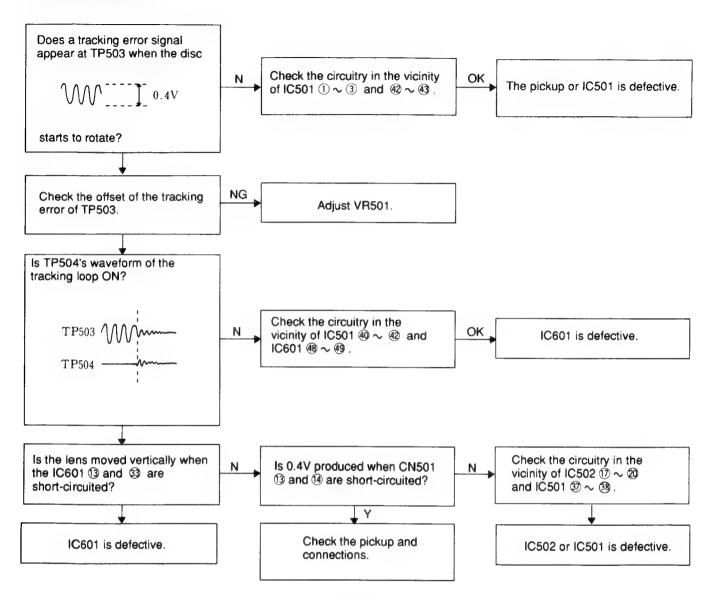


Fig. 3 - 8

4. Main Adjustments

■ Measuring instructions required for adjustment

- 1. Low-frequency oscillator(oscillation frequency 50Hz~20kHz, 0dB output with 600 Ω impedance)
- 2. Attenuator(600 Ω impedance)
- 3. Electronic voltmeter
- 4. Distortion meter
- 5. Torque gauge(cassette for CTG-N,
- 6. Wow & flutter meter
- 7. Frequency counter meter

♦ Test tape

Playback tape

VTT 712 or VT712 (tape speed ,wow flutter)

VTT 724 or VT724 (reference level)

VTT 739 or VT739 (playback frequency)

VTT 703 or VT703 (10kHz azimuth)

Recording tape

AC 224

Power supply voltage

Your local voltage

AC 230 V / 50 Hz

Measuring instruments

Radio section

- ♦ FM :400Hz, 22.5kHz deviation
- ♦ FM STEREO: 1kHz,67.5kHz, deviation
 pilot signal 7.5kHz
- ♦ AM: 400Hz, 30%, modulation
- ♦ Reference output :

speaker output: $0dBs(0.755V)/3 \Omega$

H.phone output : -10dBs(0.245V)/32 Ω

♦ Standard position of function switch

Function switch: FM

Bass boost: OFF

Main volume: Reference output

Amplifier section

♦ Reference output :

speaker output 0dBs(0.755V)/3 Ω

H.phone output -10dBs(0.245V)/32 Ω

Standard position of function switch and volume

Function switch : TAPE

Mode switch: STEREO

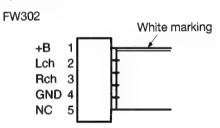
Beat cut switch: Normal (1 position)

Tone: Maximum

♦ Reference input

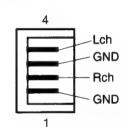
Recording input level: -30 dBs

Input point: FW302



Output terminal: CN309

CN309



- ♦ Other item
 - Standard recordingt current for recording :

Normal mode 33 µA

• Bias oscillation frequency (Beat cut switch to normal):

 $75 \text{ kHz} \pm 3 \text{ kHz}$

• Standard bias current for recording :

Normal mode 500 μA

■ CD section

♦ Test disc (JVC CTS – 1000)

(CRG - 1242)

■ Cassette Amplifier Section

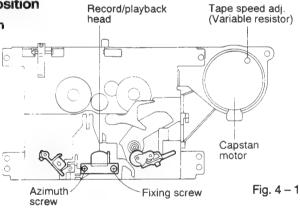
Item	Measuring condition	Check and adjustment procedure	Standard value	Adjusting part
Head azimuth adjustment	Test tape: VTT703 (10 kHz) Signal output terminal: PHONES (with 32 Ω load)	 Play back the test tape VTT703 (10 kHz). Adjust the head azimuth adjusting screw so that the phase difference between the R and L channels is minimized at an output level that is within ±2 dB of the maximum output level of the deck in the FWD and REV operations. After this adjustment, lock the head azimuth adjusting screw with screw sealant to cover more than a half of the screw head. When the head azimuth is maladjusted, correct it with the head azimuth adjusting screw in the FWD and REV operations alternately. 	Output level: Within ±2 dB of maximum output level Phase difference R and L channels: Minimum	Head azimuth adjusting screw (To be used only after head re- placement)
Tape speed and wow/ flutter check and adjust- ment	Test tape: VTT712 (3 kHz) Sigfnal output terminal: PHONES (with 32 Ω load)	 Play back the test tape VTT712 (3 kHz) by the end portion. Connect a frequency counter and check that it reads between 2940 and 3090 Hz. If not, adjust the frequency with the semi-fixed resistor VR303. Check that the wow/flutter is within 0.38% (unweighted.) 	• 2940 to 3090 Hz • Within 0.38% (unweighted)	• Tape speed: VR303
PB frequency response check	Test tape: VTT739 Signal output terminal: PHONES (with 32 Ω load)	Play back the test tape VTT739 while confirming that deviation between the 1 kHz signal and 10 kHz signal should be 0 ± 4 dB.	Deviation between 1 kHz and 10 kHz: 0 ± 4 dB	
Bias frequen- cy check	Tape: Normal Signal output terminal: Speaker	Set the BEAT CUT switch to the NORM-1, and check to see if the frequency at the measuring point is 75.5 ± 3 kHz. If not, adjust the frequency to be 75.5 ± 3 kHz. Then, change the setting of the BEAT CUT switch to the NORM-2 and NORM-3 positions to check to see if the measured frequency is equivalent to the standard value respectively.	Standard values • STD-1 position: 75.5 ± 3 kHz • STD-2 position: 72.5 ± 3 kHz • STD-3 position: 75.5 ± 3 kHz	
REC and PB frequency re- sponse adjust- ment	Test tape: AC224 Signal input/output terminal: FW302/PHONES	Set the TAPE SELECT switch to the NORMAL position and BEAT CUT switch to the STANDARD-1, and record the reference 1 kHz (-30 dB) signal and 8 kHz signal alternately repeatedly. While playing back the recorded signals, check to see if the output level of the 8 kHz signal differs from that of the 1 kHz signal by within +1 ± 4 dB.	Level difference between REC and PB: Within +1 ± 4 dB	
REC and PB sensitivity check	Test tape: VTT724 (1 kHz), AC224 Signal input/output terminal: FW302/ PHONES	Input the 1 kHz, -30 dBs signal through the input terminal FW302 and record it. While playing back the recorded signal, check to see if the playback output level at the measuring point is within 0 dBs as compared with the playback level of the test tape VTT724.	Within 0 dBs ± 3 dB	

■ Tuner Section

Item	Measuring condition	Check and adjustment procedure	Standard value	Adjusting part
IF adjustment FM tracking and MPX adjustment		 Free from adjustment because fixed IF element is employed Free from adjustment because ceramic oscillator is employed Free from adjustment because fixed coil is employed 		
AM tracking adjustment	BAND selector switch: AM Standard mode setting: AUTO Measuring point: CN2 for AM output Signal input: Standard loop antenna	 While receiving a 522 kHz signal from an AM signal generator to the tuner being set to the PRESET No. 1, check to see if the output of CN2 is maximum. When voltage at TP9 is higher than 5.0 V, adjust it to be 5.0 ± 0.1 V with L4. While receiving a 603 kHz signal from an AM signal generator to the tuner being set to the PRESET No. 3, maximize the output of CN2 with L3. While receiving a 1404 kHz signal from an AM signal generator to the tuner being set to the PRESET No. 4, maximize the output of CN2 with TC2. Repeat the above steps 3. and 4. to maximize the output of CN2. 	5.0 ± 0.1 V	L4 L3 TC2 L3, TC2

■ Location of adjusting position

• Cassette mechanism section



TUNER board assembly

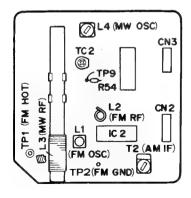
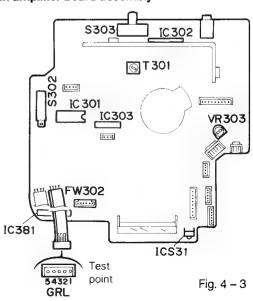


Fig. 4 – 2

Main amplifier board assembly



CD player Section

Item	Conditions	Adjustment & Confirmation Methods	Stand. values	Adjust
Tracking offset adjustment	Test disc :CTS1000 Oscilloscope Note 1 Adjust VR501 so that the waveform becomes vertically symmetrical to the reference voltage value of servo. Note 2 The oscilloscope input should be DC – coupled. Note 3 VREF: Groud level on the oscilloscope.	① Connect TP503 (TE) and TP501 (VREF) respectively to the hot and ground sides of the oscilloscope. ② Replay the test disc CTS1000. ③ When TP504 and TP501 have been connected (Shorted) during replay, a tracking error signal will be emitted for about 3 sec. (Since the tracking error signal will be emitted at all times when the model with a test mode function is shifted to TEST mode, the adjustment can be performed more easily). ④ Since the waveform of tracking error signal displayed by the oscilloscope goes up and down when VR501 has been adjusted, adjust VR501 so that the center of the waveform amplitude becomes a reference voltage value of servo(VREF). ⑤ Repeat the steps ② ~ ④ until the center of the waveform amplitude of tracking error signal becomes the reference voltage value of servo (This step is not necessary in the case of the model with test mode function).	Adjust the center of waveform amplitude to the reference voltage value of servo (VREF).	VR501
		Tracking error signal VREF	Adjust the volumes very systemmetric reference volume of sen	rtically cal to the oltage

■ Adjusting position (CD amplifier board)

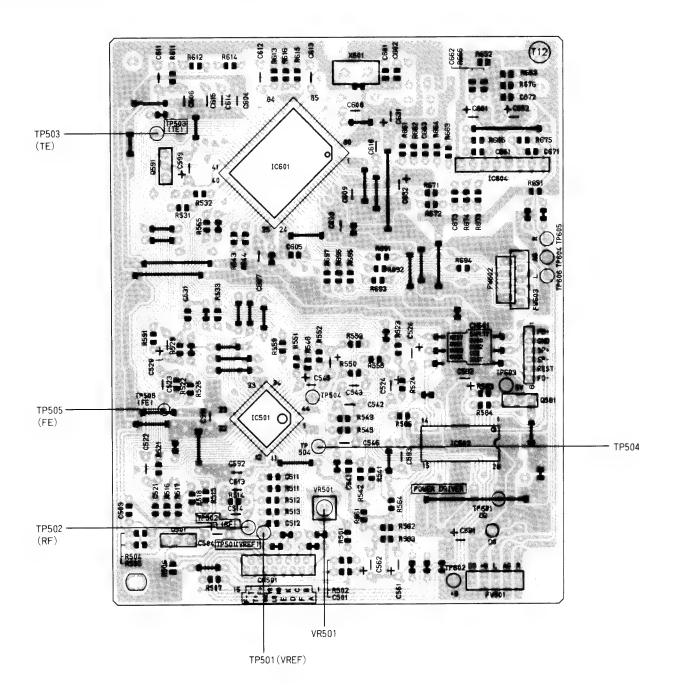
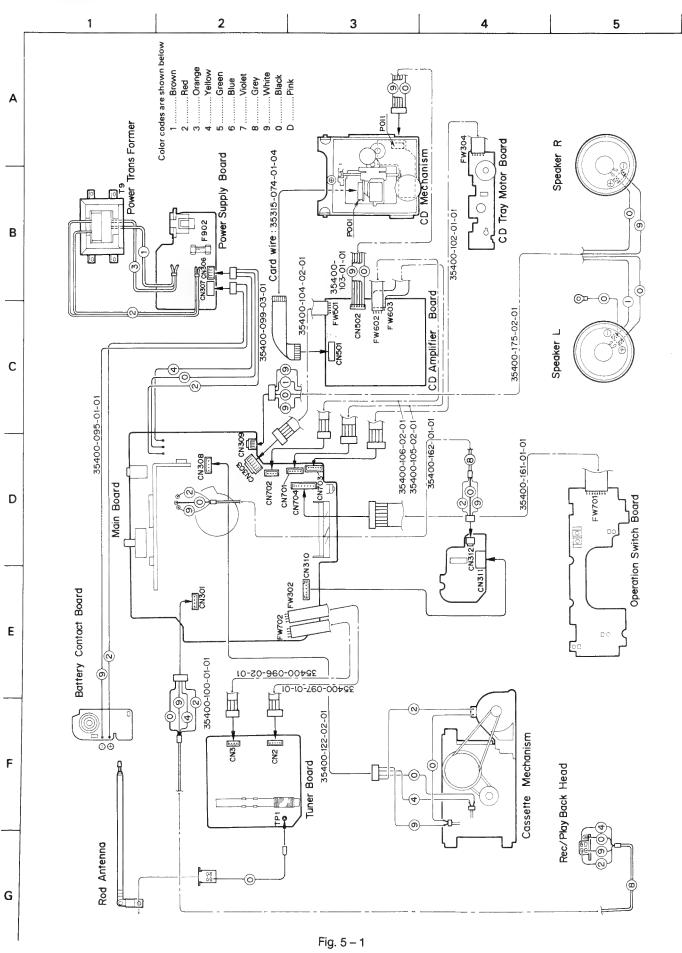


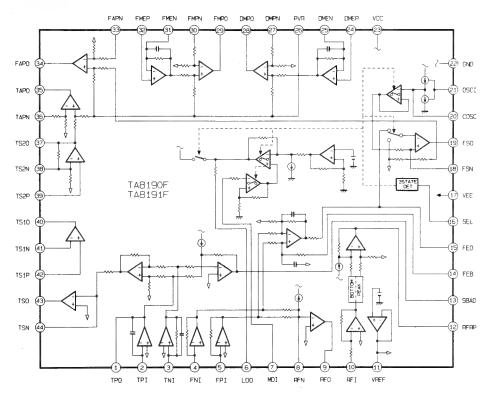
Fig. 4 – 4

5. Wiring Connections

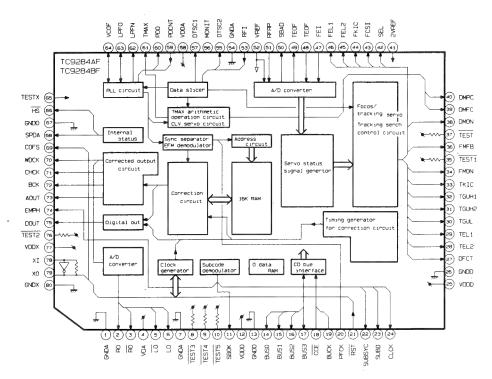


6. Block Diagram

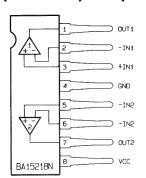
- Integrated circuit diagram
- ◆ IC501 (TA8191F) Servo



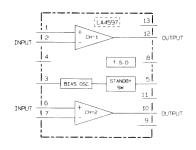
♦ IC601 (TC9284BF) Processor

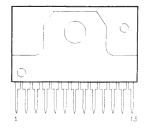


♦ IC604 (BA15218N) Low pass tilter

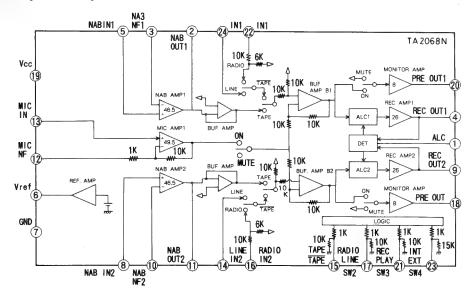


◆ IC302 (LA4597K) Power amp

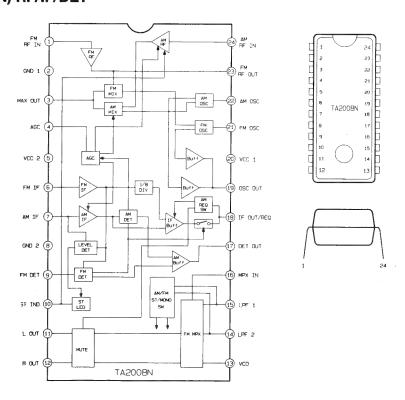




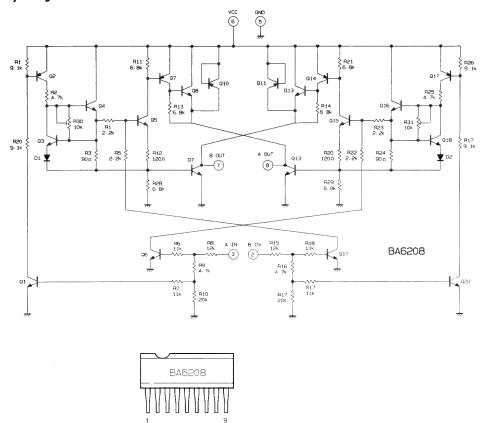
♦ IC301 (TA2068N) R/P amp/sw



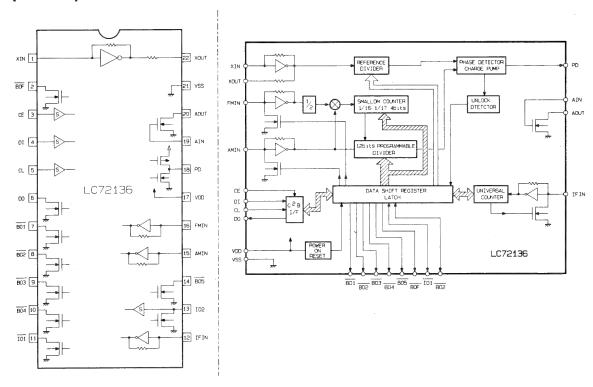
◆ IC2 (TA2008N) RF/IF/DET



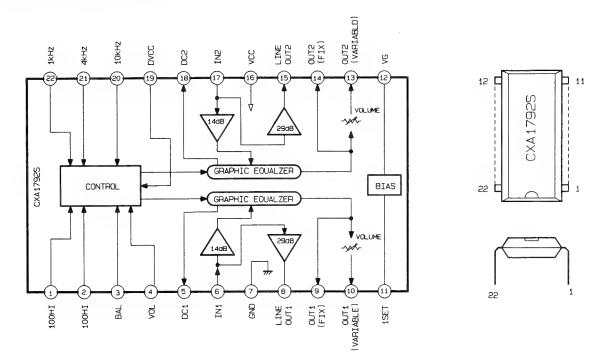
♦ IC802 (BA6208A) Tray motor

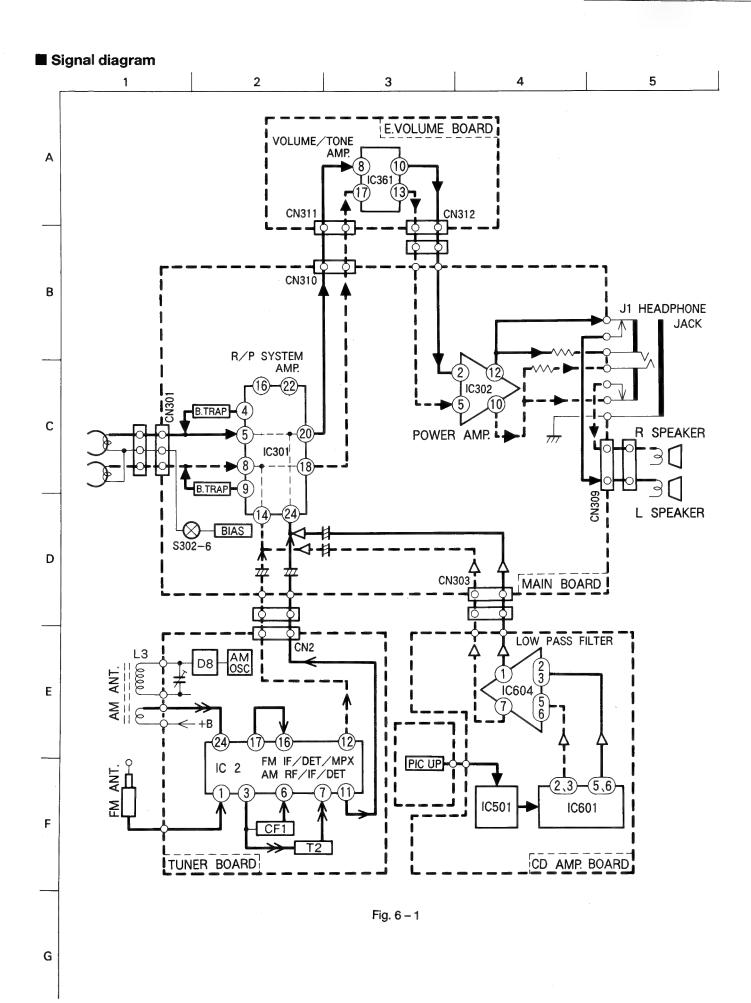


♦ IC3 (LC72136) PLL

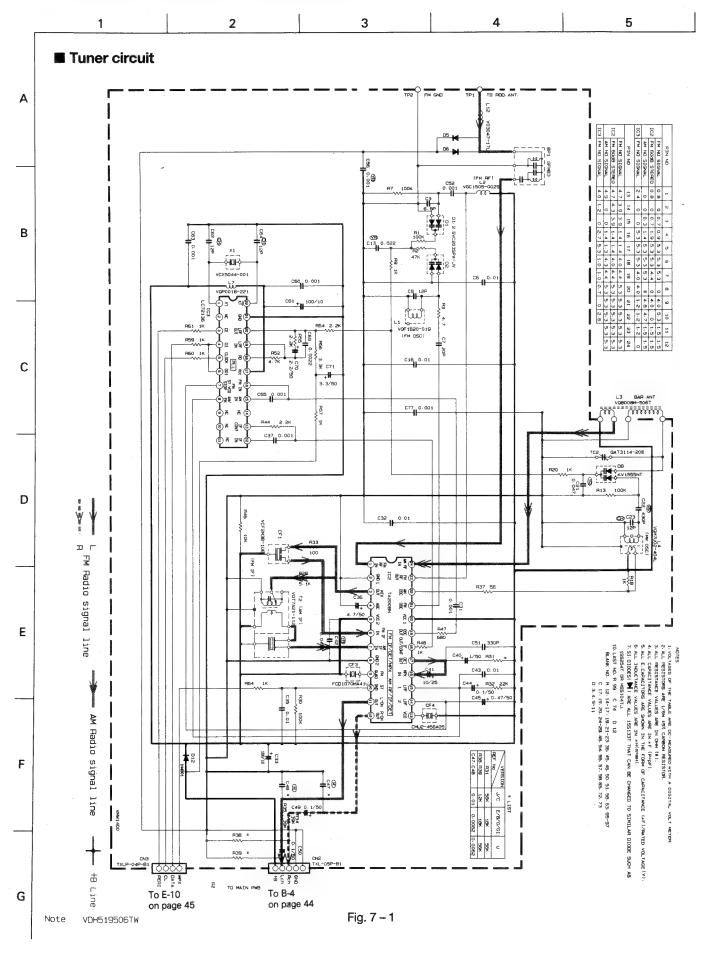


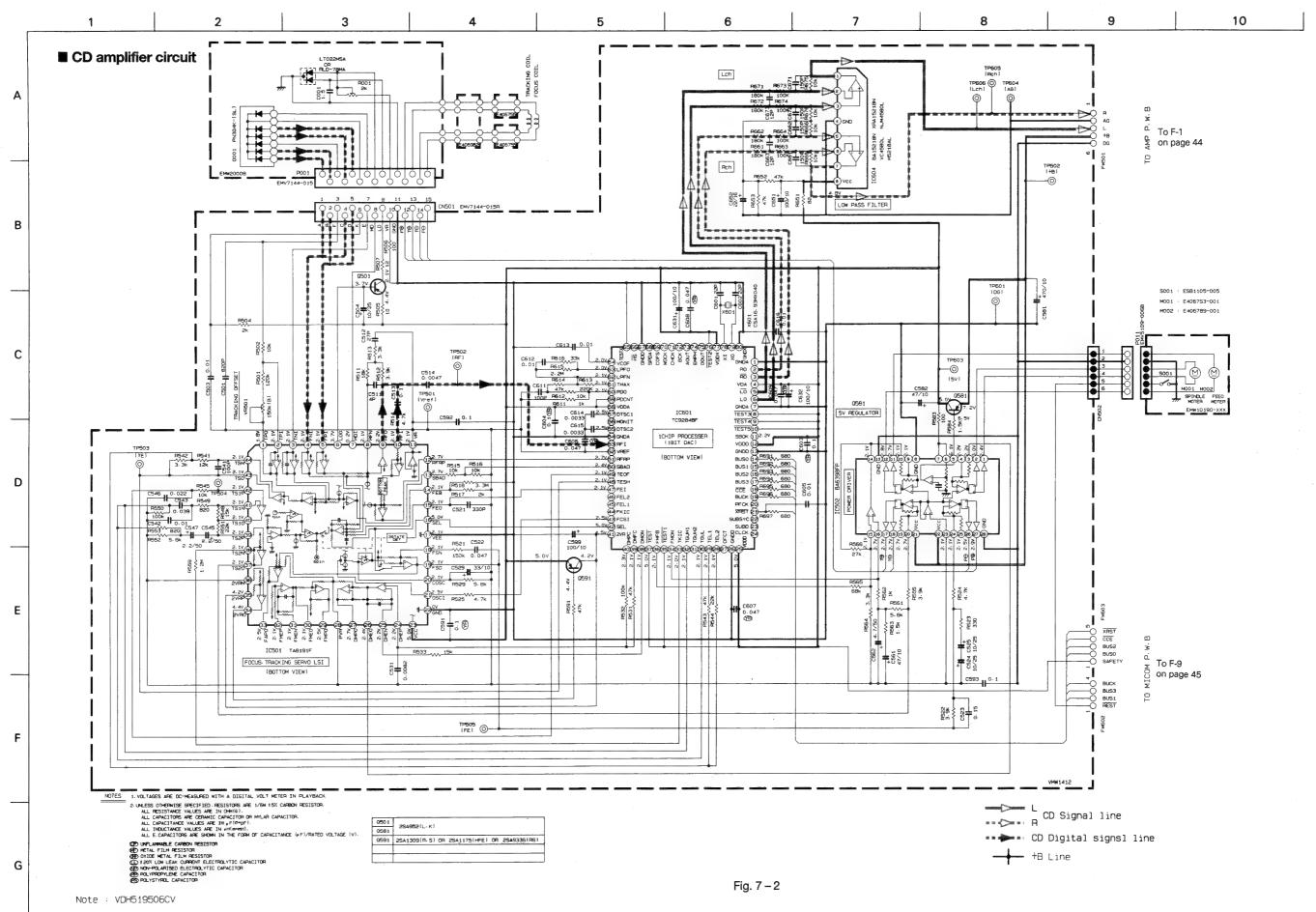
♦ IC361 (CXA1792S) E. Volume

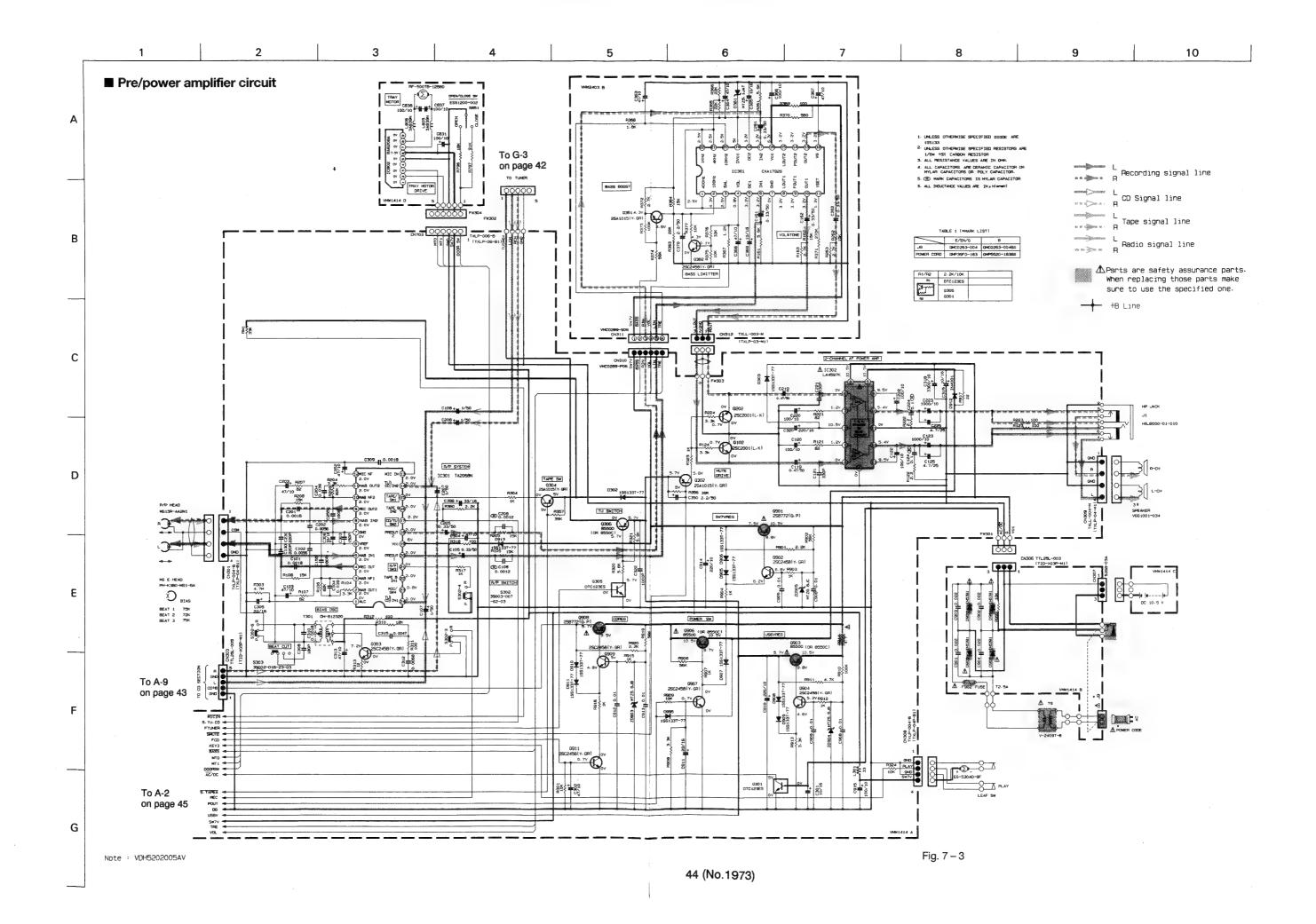


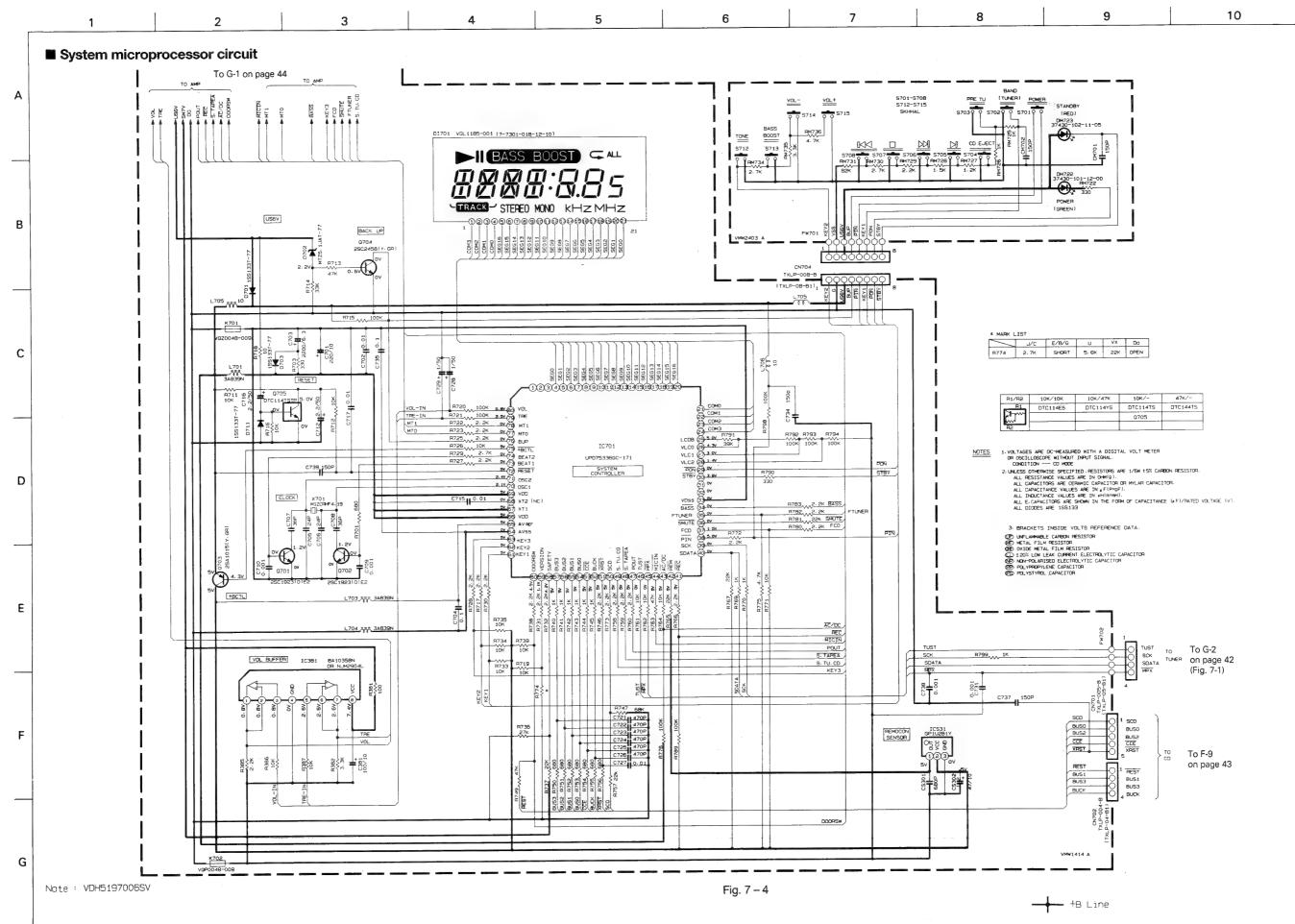


7. Standard Schematic Diagram

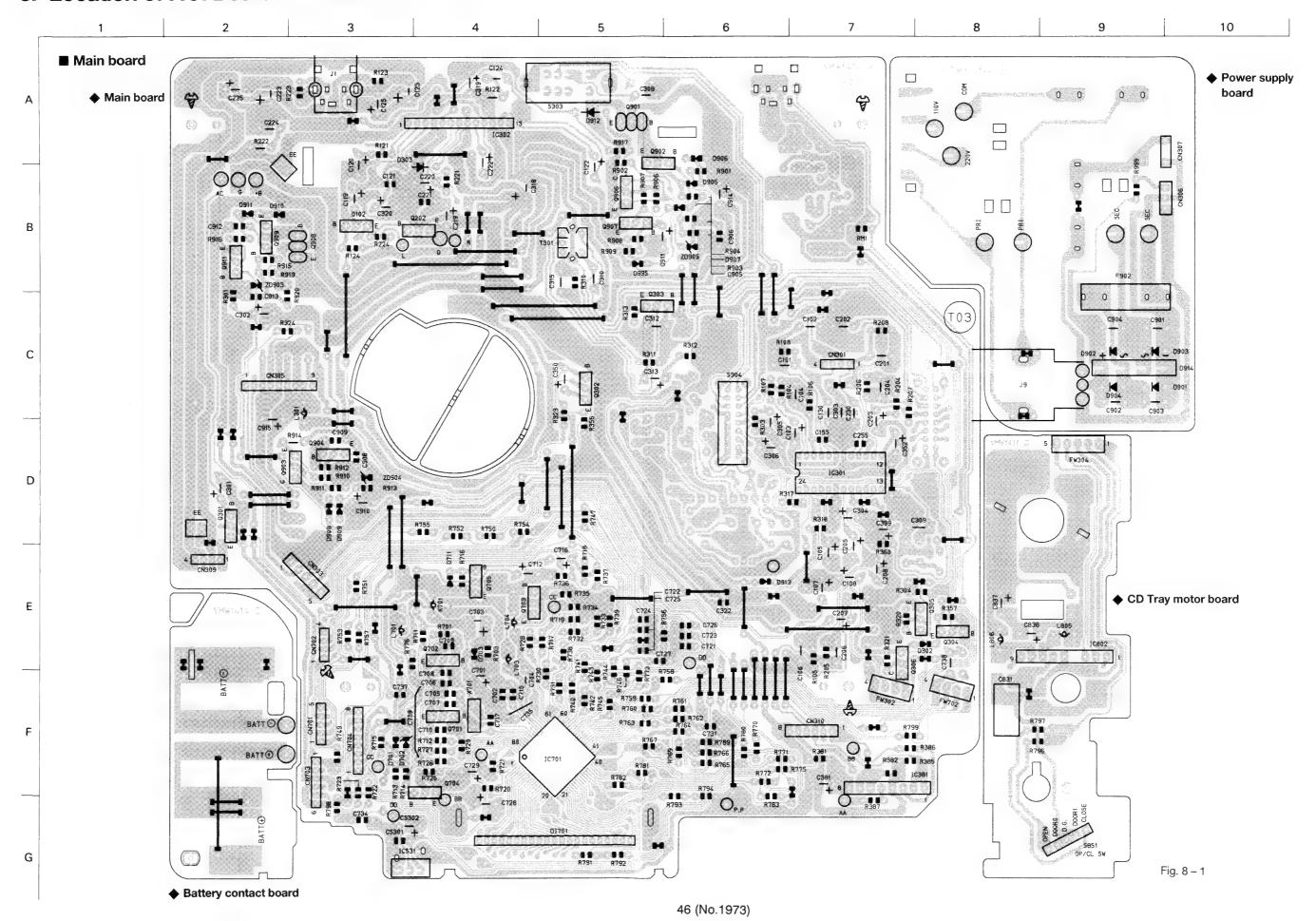








8. Location of P.C. Board Parts and Parts List



Main board parts list

SUFFIX																																		And the second s																		
REMARKS	 .010MF 20% 16V 2200MF 20% 6.3V	10MF 5% 50V	4PF 5% 50	5% 5	6PF 5% 50	6PF 5% 50V	000PF 10	000PF 10% 50	.2MF 20% 50	010MF 20%	.2MF 20% 50V	010MF 20% 1	70PF 10% 50	70PF 10% 50	PF 10% 50	70PF 10% 50	70PF 10% 50	70PF 10% 50	Olomr 20% I	OMF 20% 50	OMF 20% 50	PF 10% 5	50PF 10% 50	10MF 20% 25	50PF 10% 50V	000PF 10% 5	7 70% 70	0	01 %00 LE00	10 10 1 10 10 10 10 10 10 10 10 10 10 10	OZZMI ZOA ZO	100 KON TE	022M	MF 20% 16	010MF 20% 16	MF 20%	010MF 20% 16	20MF 20% 10	2MF 20% 16V	010MF 20% 1	010MF 20% 16	20MF 20% 10	DOMF ZOX TO		- -	AIN ATTEDV CONECT	180.0	INGLE C SECE	SPEAKER Dir Am	ט מפ		CD TRAY
PARTS NAME	C.CAPACITOR	F CAPACIT	.CAPACITO	, CAPA	. CAPACITO	.CAPACITO	.CAPACITO	.CAPACITO	.CAPACITO	CAPACIT	.CAPACITO	.CAPACITO	. CAPACITO	.CAPACITO	CAPACIT	CAPACITO	.CAPACITU	CAPACITO	CAPACIO	.CAPACIT	.CAPACITO	CAPACIT	.CAPACITO	.CAPACITO	CAPACITO	CAPACITO	CAPACITO	OFFORD OFFO	7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	0 - 1 0 4 1 4 0 4 0	CAPACITO		CAPACI	. CAPACITO	.CAPACIT	.CAPACITO	.CAPACITO	.CAPACITO	.CAPACITO	.CAPACITO	. CAPACI	CAPACI 10	CAPACITO	DINECTO	ONNECTO	ONNECTO	ONNECTO	UNNECTO	ONNECTO	DINNECTO	ONNECTO	CONNECTOR
PARTS NO.	QCVB1CM-103Y	FV41H.1-10	S11HJ-240	CS11HJ-24	CS11HJ-36	1111-3	CBB1HK-10	CBB1HK-102	ETC1HM-225	VB1CM-10	ETC1HM-225	CVB1CM-103	CBB1HK-471	CBB1HK-471	3B1HK-47	CBB1HK-471	CBB1HK-471	CB81HK-	CVB1CM-103	ET41HM-10	ET41HM-105	BB1HK-1	CBB1HK-151	CC11EM-10	CBB1HK-15	CY41HK-10	CBB1HK-1	E 141AM - 10	EI4IAM-10	E141AM-107	CCTIEMIZZ	CC11EM-223	1 E	CVB1CM-103	CVB1CM-103	CVB1CM-103	CVB1CM-103	ET41AM-22	ET41CM-226	CVB1CM-10	CVB1CM-1	ET41AM-22	ET41AM-10	LP-004-	11251-0	16256-00	8-00A	XLP-004-	XLL-004-	7-6870 0-00-0	X P-00%-	00
N 2 2 2 N	C 702	2 0	70	70	7.0	70	70	71	71	71	71	71	72	72	7.5	72	72	72	72	72	72	73	73	73	73	73	73	0 0	a c	0 0	3	> 0	0 0	06	90	90	90	91	91	91	91	91	91	N CO	N 2	2002	2007	200	2 :	N S I	2 2 2	CN703

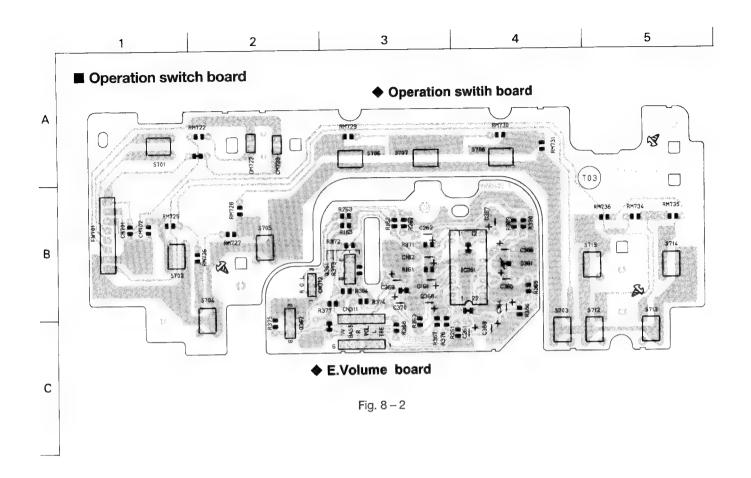
REF	PARTS NO.	PARTS NAME	KEMAKKS	SUFFIX
10	FN41HJ-18	CAPACIT	0	
0	@FN81HJ-	CAPACITO	600PF 5% 5	man s
0	ET41AM-476	- CAPACITOR	7MF 20% 10	
0	GFV41HJ-59	CAPAC CABACTED	23MF 22%	
0	100 CFC 40		0 % 0 1	
) (O L L T T T T O O C L L T T T T T T T T T T T T T T T T T	0-304L40.	800 TEMO	
) C	OT TATE TO		F 20% 5	
٠,	OFT41HM-47	CAPACITO	47MF 20% 5	
1 (ET41AM-10	.CAPACITO	F 20% 1	
N	QCBB1HK-33	. CAPACIT	30PF 10%	
N	QET41AM-10	.CAPACITO	00MF 20% 1	
N	ET41AM-10	.CAPACITO	MF 20%	
2	QFV41HJ-10	ILM CAPAC	10MF 5% 50	
\sim	GER41EM-475V	.CAPACITO	.7MF 20% 2	
M	CS11HJ-22	.CAPACITO	20	
S	QCBB1HK-18	.CAPACITO	80PF 10% 5	
0	OFN41HJ-18	.CAPACITO	800PF 5% 5	
0	OFN81HJ-56	.CAPACITO	600PF 5% 5	
0	QET41AM-476	. CAPACITOR	7MF 20% 10	And the state of t
0	QFV41HJ-39	ILM CAPAC	039MF 5% 5	
0	QETC1HM-334Z	CAPACITO	33MF 20% 5	
0	C1-PARTS84	.CAPACITO	% :	
0	QET41HM-10	. CAPACITO	.OMF 20% 5	
0	GET41HM-10	.CAPACITO	.OMF 20% 5	
4	QET41HM-47	.CAPACITO	47MF 20% 5	
N I	QET41AM-10	.CAPACITO	00MF 20% 1	
N (CBB1HK-	CAPAC	330PF 10% 50V	
V	0 T - W T T T T T T T T T T T T T T T T T	CAPACI-O	000 TH 20% I	
VI	CHI4TAM-TOS	CAPACIOR	000mr 20%	
V	01-04-04-0 01-04-04-0	TIR CAPAC	10MF 5% 50	
NI	. GER41EM-4/5V	CAPACI 10	./MF 20% 2	
n	SCSIIHJ-ZZ	CAPACIO.	ZOPT 7% V	
Λ (SCHETHK-18	CAPACIO CAPACIO	SUPP TON S	
00	GE 141CM-10	CAPACIO	20%	
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0	QCS11HJ-15	. CAPACI 10	50Pt 5% 5	
0 (QET41AM-47	CAPACITO	7MF 20% 1	
0	QE 141CM-22	CAPACIO	ZMF 20% 16	
Ok	QE141CM-55	CAPACIO	SMF 20% 1	
0		D-174747.	000Fr 5% 5	
O 4	0	CAPACITO	SUOPE 52	
н,	OFN41HJ-18	APACITO	2000	
	GTN42HU108	CARACIO	80021 >%	
~	QET41AM-47	.CAPACITO	20% 100	
(-1	QFN41HJ-47	CAPACITO	700PF 5%	
44	QETB1CM-33	CAPACITO	300MF 20%	
4	QET41CM-10	. CAPACITO	OMF 20%	
C	QET41CM-22	. CAPACITO	20MF 2	
N	QCBB1HK-1	. CAPACIT	PF 10%	
35	QETC1HM-22	. CAPACITO	. 2MF 2	
35		CAPACIT	7MF 20% 10	
38	QET41AM-1	.CAPACITO	MF 20%	
39	9 0FT41CM-336	FCAPACITOR	ZME 20	
			JII 60% 10	

PARTS NO. PARTS NAME	NO. 0111111	SUFFIX									-																			-												
PARTS NO. PARTS NAME	00	EMARK							3	. 5K 5% 1/	2K 5% 1/6	2 5% 1/6W	5K 5% 1/6	2 2% 1/0%	00 5% 1/6	.3K 5% 1/6	-5K 5% 1/6 5K 5% 1/6W	2K 5% 1/6	2 5% 1/6W	5K 5% 1/6	2 5% 1/6W	00 5% 1/6	.3K 5% 1/6	OK 5% 1/6W	OK 5% 1/6	2K 5% 1/6	00 5% 1/6	2 5% 1/6W	.0K 5% 1/6	00 5% 1/6W	. OK 5% 1/0	.0K 5% 1/6	OK 5% 1/6	9K 5% 1/6 9K 5% 1/6	.2K 5% 1/6	00 5% 1/6W	.3K 5% 1/6	-2K 5% 1/6W	OK 5% 1/6	- AL CC	20 5% 1/0	30 5% 1/6 0K 5% 1/6
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		4	70	90	90	06	000	90	91	10	101	10	2	1,0	12	12	202	1 0	200	20	22	2 0	22	30	300	31	31	31	31	31	3 6	32	32	2 2	36	38	38	2 00	33	20	70	70

SUFFIX											
BLOCK NO. OH	SWITCH PCB 680PF 10% 50V 47MF 20% 10V					EVR BUFF IC(=N2	L301=B99 MOTOR				
PARTS NAME	ONNEC CAPA CAPA CAPA I DIO I DIO	I DIOD ENER D I DIOD I DIOD IODE	100E 100E 100E 1 010D	SI DIODE SI DIODE SI DIODE SI DIODE	I DIODE I DIOD CD CON	00000	N C C N C C N C C C C C C C C C C C C C	NDUCTO NDUCTO NDUCTO NDUCTO	NDUCTOR NDUCTOR OTOR RANSISTO	ANSISTO ANSISTO ANSISTO ANSISTO ANSISTO	SI.TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR
PARTS NO.	XLP- CBB1 ET41 SS13 SS13	SS13 TZ5. SS13 SS13 N539	2 2 2 2 3 3 3 4 4 4 4 4 4 4 4 4 4 4 4 4	SS 2 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	N4001 SS133 SS133 SS133 GL118	A A A A A A A A A A A A A A A A A A A	SJ200 MC026 QZ004 QZ004 QZ004	A 883 A 883 A 883 A 800 A 800	A839N A839N F-500TB- SC2001(L SC2001(L	шνωνш	550 SC1 SC1 SA1 SC2
A REF.	CS30 CS30 CS30 D 30	20 20 21 20 20 20 20 20 20 20 20 20 20 20 20 20	00000	00000	91 91 91 90 10 90 10 90	030000000000000000000000000000000000000	30	7007	800	a 301 a 302 a 303 a 304 a 305	30 70 70 70 70

	REF.	PARTS	PART	NAME	REMAR	SUFFIX
	77	RD161J-22	ARBO	0	2K 5% 1/	
	776	D161J-4	082	ESISI	. / K 5% 1	
- ~	- 1	70161J-10	ARRO	FSISTO	2K 5% 1/	
- ~	7 8 0	RD161J-22	AR	ESISTO	2K 5% 1/6	
100	78	RD161J-22	ARBO	ESIST	.2K 5% 1/	
~	78	R0161J-22	ARBO	ESISTO	.2K 5% 1/	
C	78	611-10	AR	ESISTO	00K 5% 1/6	
α	7.0	RD161J-33	ARBO	ESISTO	30 5% 1/6	
02 I C	7 9	RD161J-39	K B C	ESISIO	OCK 5% 1/0W	
X C	- 1	KU1017-10	2000	0-0100	0/7 % 200	
2 (7.0	613-10	X (ESTS.	00K 5% 1/	
X C	~ ^	KU161J-10	2000	010101	007 22 1/0	
Y (- 1	KU101J-18	2000	フークークし	0/1 90 /0	
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r o	000	000101710 0001611-20	Λ Δ Γ Ω	FO TO T	2 %	
: 0	0	0001411-56	4000	0 1 0 1 0 1	4K 5% 1/4E	
200	00	QRD161J-10	A	ESISTO	OK 5% 1/	
100	06	QRD161J-10	ARBO	ESISTO	.0K 5% 1/6	
0	0	QRD161.1-56	ARBO	ESISTO	6K 5% 1/6W	
0%	06	QRD161J-10	ARBO	ESISTO	.OK 5% 1/	
8	06	QRD167J-33	ARBO	ESISTO	.3K 5% 1/6	
oc	06	QRD161J-10	A	ESISTO	OK 5% 1/6W	
C	91	QRD161J-10	ARBO	ESI	00K 5% 1/6	
α	91	QRD161J-47	ARBO	ESISTO	.7K 5% 1/6	
Ω	0	QRD161J-10	ARBO	ESISTO	. OK 5% 1	
Oζ	9	QR0167J-33	ARBO	ESISTO	.3K 5% 1/6	
00 0	91	QRD167J-4R	ARBO	ESISTO	./ 5% 1/6W	
200	6	QRD161J-10	AKB	ESISIO	. OK >24 I	
ar c	0 (QRD161J-10	ARBU	ESISTO	.OK 5% 1/6	
× (, c	GR0161J-22	2000	ロークエクロ	* 0 / 1 V V V	
z c	7 (GRUIOIJ-50	D 0	0-0101	71 90 70	
K a	10	QKD1013-22		20101010	5% 1/4W	
- a	. Σ	0001611-15	2 0	F 0 T 0 T 0	1 a	
< V	30	CK 2245015	1001	20113	K-23F01-69	
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11-	30	OH-812320	IAS 0	SC COIL	BIAS COIL	
\times	70	MIZCRHF	ERA L	×		
7	60	MTZ5	ENER	D100E		
7	060	MT25.6J	ENER	IOD		
7	060	MT26.8J	ENER	100		
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PARTS NO. PARTS NO. PARTS NO. PARTS NO. PARTS NO. 116 GREDON R. 120 GREDON R.
PARTS NO. PARTS NO. 156 GRBON R. 175 GRBON
7.5 GRD1611-100 7.15 GRD1611-100 7.16 GRD1611-100 7.20 GRD1611-100 7.21 GRD1611-100 7.21 GRD1611-100 7.22 GRD1611-100 7.23 GRD1611-100 7.25 GRD1611-100 7.25 GRD1611-222 7.25 GRD1611-222 7.25 GRD1611-222 7.26 GRD1611-222 7.27 GRD1611-222 7.28 GRD1611-222 7.29 GRD1611-222 7.20 GRD1611-222 7.20 GRD1611-222 7.20 GRD1611-222 7.20 GRD1611-222 7.20 GRD1611-222 7.20 GRD1611-222 7.20 GRD1611-222 7.20 GRD1611-683 7.20 GRD1611-222 7.20 GRD1611-222
T



Operation switch board parts list

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ACT SWITC	ACT SWITC	ACT SWITC	ACT SWITC	ACI SWILC) T M D T T T T T T T T T	0 - 1 & 0 - 0 V	O-180 LOV	ACT SWITC	ACT SWITC																					
KHHA	KHHA	KHHA	KHHA	KHHA	KHHA			XHHA	КННА																					
702	703	107	202	706	100	740	713	714	715		-11		-																	
	702 SKHHAI TACT SWITC	702 SKHHAL TACT SWITC 703 SKHHAL TACT SWITC	702 SKHHAL TACT SWITC 703 SKHHAL TACT SWITC 704 SKHHAL TACT SWITC	702 SKHHAL TACT SWITC 703 SKHHAL TACT SWITC 704 SKHHAL TACT SWITC 705 SKHHAL TACT SWITC	702 SKHHAL TACT SWITC 703 SKHHAL TACT SWITC 704 SKHHAL TACT SWITC 705 SKHHAL TACT SWITC 706 SKHHAL TACT SWITC	702 SKHHAL TACT SWITC 703 SKHHAL TACT SWITC 704 SKHHAL TACT SWITC 705 SKHHAL TACT SWITC 706 SKHHAL TACT SWITC 707 SKHHAL TACT SWITC	702 SKHHAL TACT SWITC 703 SKHHAL TACT SWITC 704 SKHHAL TACT SWITC 705 SKHHAL TACT SWITC 707 SKHHAL TACT SWITC 707 SKHHAL TACT SWITC 707 SKHHAL TACT SWITC 708 SKHHAL TACT SWITC 708 SKHHAL TACT SWITC 707 SKHIAL TACT SWITC 707 SKHIAL TACT SWITC 707 SKHIAL 700 SKHIAL TACT SWITC 700 SKHIAL TACT SWITC 700 SKHIAL TACT SWITC 700 SKHIAL TACT SWITC 700 SKHIAL	702 SKHHAL TACT SWITC 704 SKHHAL TACT SWITC 704 SKHHAL TACT SWITC 705 SKHHAL TACT SWITC 707 SKHHAL TACT SWITC 707 SKHHAL TACT SWITC 708 SKHHAL TACT SWITC 712 SKHHAL TACT SWITC 712 SKHHAL TACT SWITC 713 SKHHAL TACT SWITC 714 SKHHAL TACT SWITC	702 SKHHAL TACT SWITC 704 SKHHAL TACT SWITC 704 SKHHAL TACT SWITC 705 SKHHAL TACT SWITC 707 SKHHAL TACT SWITC 707 SKHHAL TACT SWITC 712 SKHHAL TACT SWITC 713 SKHHAL TACT SWITC 714 SWITC 714 SKHHAL TACT SWITC 714 SWITC 714 SKHHAL TACT SWITC 715 SWITC 715 SKHHAL TACT SWITC 715 SWITC 715 SKHHAL TACT SWITC 715	TACT SWITTACT SWITTAC	702 SKHHAL TACT SWITC 703 SKHHAL TACT SWITC 704 SKHHAL TACT SWITC 705 SKHHAL TACT SWITC 706 SKHHAL TACT SWITC 707 SKHHAL TACT SWITC 712 SKHHAL TACT SWITC 713 SKHHAL TACT SWITC 714 SKHHAL TACT SWITC 715 SKHHAL TACT SWITC 715 SKHHAL TACT SWITC 715 SKHHAL TACT SWITC	702 SKHHAL TACT SWITC 703 SKHHAL TACT SWITC 704 SKHHAL TACT SWITC 705 SKHHAL TACT SWITC 705 SKHHAL TACT SWITC 707 SKHHAL TACT SWITC 712 SKHHAL TACT SWITC 713 SKHHAL TACT SWITC 714 SKHHAL TACT SWITC 715 SKHHAL TACT SWITC 715 SKHHAL TACT SWITC 715 SKHHAL TACT SWITC	702 SKHHAL TACT SWITC 703 SKHHAL TACT SWITC 704 SKHHAL TACT SWITC 705 SKHHAL TACT SWITC 705 SKHHAL TACT SWITC 707 SKHHAL TACT SWITC 713 SKHHAL TACT SWITC 714 SKHHAL TACT SWITC 715 SWITC 715 SKHHAL TACT SWITC 715 SWIT	702 SKHHAL TACT SWITC 703 SKHHAL TACT SWITC 704 SKHHAL TACT SWITC 705 SKHHAL TACT SWITC 705 SKHHAL TACT SWITC 707 SKHHAL TACT SWITC 712 SKHHAL TACT SWITC 713 SKHHAL TACT SWITC 714 SKHHAL TACT SWITC 715 SWITC 715 SKHHAL TACT SWITC 715 SWITC	702 SKHHAL TACT SWITC 703 SKHHAL TACT SWITC 703 SKHHAL TACT SWITC 704 SKHHAL TACT SWITC 705 SKHHAL TACT SWITC 707 SKHHAL TACT SWITC 713 SKHHAL TACT SWITC 713 SKHHAL TACT SWITC 714 SKHHAL TACT SWITC 715 SWITC 715 SKHHAL TACT SWITC 715 SKHHAL T	702 SKHHAL TACT SWITC 703 SKHHAL TACT SWITC 704 SKHHAL TACT SWITC 705 SKHHAL TACT SWITC 705 SKHHAL TACT SWITC 707 SKHHAL TACT SWITC 713 SKHHAL TACT SWITC 713 SKHHAL TACT SWITC 714 SKHHAL TACT SWITC 715 SWITC 715 SKHHAL TACT SWITC 715 SKHHAL TACT SWITC 715 SWITC 715 SKHHAL TACT SWITC 715 SKHHAL TACT SWITC 715 SWITC 715 SKHHAL TACT SWITC 715 SW	702 SKHHAL TACT SWITC 703 SKHHAL TACT SWITC 704 SKHHAL TACT SWITC 705 SKHHAL TACT SWITC 705 SKHHAL TACT SWITC 705 SKHHAL TACT SWITC 705 SKHHAL TACT SWITC 715 SKHHAL	702 SKHHAL TACT SWITC 703 SKHHAL TACT SWITC 704 SKHHAL TACT SWITC 705 SKHHAL TACT SWITC 705 SKHHAL TACT SWITC 707 SKHHAL TACT SWITC 713 SKHHAL TACT SWITC 714 SKHHAL TACT SWITC 715 SWITC 715 SKHHAL TACT SWITC 715 SWIT	702 SKHHAL TACT SWITC 703 SKHHAL TACT SWITC 704 SKHHAL TACT SWITC 705 SKHHAL TACT SWITC 705 SKHHAL TACT SWITC 705 SKHHAL TACT SWITC 712 SKHHAL TACT SWITC 713 SKHHAL TACT SWITC 714 SKHHAL TACT SWITC 715 SKHHAL	702 SKHHAL TACT SWITC 703 SKHHAL TACT SWITC 704 SKHHAL TACT SWITC 705 SKHHAL TACT SWITC 705 SKHHAL TACT SWITC 707 SKHHAL TACT SWITC 712 SKHHAL TACT SWITC 714 SKHHAL TACT SWITC 715 SKHHAL 715 SKHHAL TACT SWITC 715 SWITC 715 SKHHAL 7	702 SKHHAL 703 SKHHAL 704 SKHHAL 705 SKHHAL 706 SKHHAL 706 SKHHAL 707 SWITC 708 SKHHAL 708 SKHHAL 718 SKHHAL 7	702 SKHHAL 703 SKHHAL 704 SWITC 705 SKHHAL 705 SKHHAL 706 SKHHAL 707 SWITC 708 SKHHAL 708 SKHHAL 708 SKHHAL 708 SKHHAL 708 SKHHAL 708 SWITC 708 SKHHAL 708 SWITC 708 SKHHAL 708 SWITC 708 SKHHAL 708 SWITC 708 SWITC 708 SKHHAL 708 SWITC	702 SKHHAL 703 SKHHAL 704 SWITC 705 SKHHAL 705 SKHHAL 706 SKHHAL 707 SWITC 707 SKHHAL 708 SKHHAL 708 SKHHAL 708 SKHHAL 708 SKHHAL 708 SKHHAL 708 SWITC 708 SKHHAL 708 SWITC 708 SKHHAL 708 SWITC 708 SKHHAL 708 SWITC 708 SWITC 708 SKHHAL 708 SWITC	702 SKHHAL 703 SKHHAL 704 SWITC 705 SKHHAL 705 SKHHAL 706 SKHHAL 707 SWITC 707 SKHHAL 708 SWITC 708 SKHHAL 708 SWITC 708 SKHHAL 708 SWITC 708 SKHHAL 708 SWITC						

REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
10	QETC1HM-334	. CAPACITO	33MF 20%	
9	QETC1HM-334	.CAPACITO	33MF 20%	
0 4	GE CIMMISS	CAPACITO	33MF 20%	
363	QET41AM-476		F 20%	
10	QEK41AM-47	. CAPACITO	7MF 20% 1	
365	QEK41CM-106	. CAPACITO	OMF 20% 1	
0 <	OFK41AM-10	O T T WE T T O	7MF 20% 1	
S C	QET41AM-47	.CAPACITO	7MF 20% 1	
10	QET41CM-106	. CAPACITO	OMF 20% 1	
37	QETC1HM-225	.CAPACITO	.2MF 20% 50	
0 1	QCBB1HK-15	. CAPACITO	50PF 1	
O 4	GCBB1HK-1V1	CAPACILO	SOFF 10% SO	
7 6	4 FCC 001 30		200	
7 14	2 - ALL 10031E		٠ د	
) N	37430-102-11-0	ED GREEN		
72	37430-101-1	ED RED		
36	CXA1792S	U		
40	2SA1015(Y,	RANSISTO		
S	2SC2458(Y,G	RANSISTOR		
V	QRD167J-56	ARBON RESISTO	.6K 5% 1/	
V	QRD161J-15	ARBON RESISTO	5K 5% 1/6W	
·0	QRD161J-27	ARBON RESISTO	.7K 5% 1/	
0	QRD167J	CARBON RESISTOR	K 5% 1	
Φ.	RD161J-15	ARBON RESISTO	5K 5% 1/6W	
vo ·	RD161J-27	ARBON RESISTO	.7K 5%	
o.	RD161J-22	ARBON RESISTO	ZK 5% 1/6	
01	KD161J-15	AKBON KENINIO	5K 5% 1/6	
· O	RD161J-22	ARBON RESISTO	ZK 5% 1/6	
o,	K0161J-22	ARBON RESISTO	2K 5% 1/6W	
0 1	KU1613-17	AKBUN KENINTU	77 2% I/	
O V	0.4.1.4.4.4.4.4.4.4.4.4.4.4.4.4.4.4.4.4.	ARBON KENIN-O	00 FV 1/4U	
oln	44114414	OFOTO DECK	7/ 1/ 2/ 0/	
~ r		OF OF OHA MORRE	7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	
~ P	771717777777777777777777777777777777777	ADBON AESTOT	7	
- 1	01-14-10	ARRON RESISTO	OOK 5% 1/6	
. 1	RD161.1-56	ARRON RESISTO	6K 5% 1/6W	
1	RD161J-10	ARBON RESISTO	OK 5% 1/6	
\sim	RD161J-33	ARBON RESISTO	3K 5% 1/6	
\sim	RD161J-10	ARBON RESISTO	OK 5% 1/6	
72	RD161J-33	ARBON RESISTO	30 5% 1/6	
(N	RD161J-10	ARBON RESISTO	.0K 5% 1/	
72	RD161J-10	ARBON RESISTO	.0K 5% 1/6	
M727	RD161J-12	ARBON RESISTO	2K 5% 1/	
72	RD161J-15	ARBON RESISTO	.5K 5% 1/6	
72	RD161J-22	ARBON RESISTO	.2K.5% 1/6	
73	RD161J-27	ARBON RESISTO	.7K 5% 1/6	
73	RD161J-82	ARBON RESISTO	2K 5% 1/6	and the second s
\sim	RD161J-27	ARBON RESISTO	.7K 5% 1/6	
M	RD167J-33	ARBON RESIST	.3K 5	
73	R0161J-47	ARRON RESTS	71 5% 116	
			0 1 87 41.	

2 3 5 ■ Tuner board Α TO ROD.ANT В С **■** C32 D Ε

Fig. 8 – 3

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Tuner board parts list

0.055111	 PARTS NO.	PARTS NAME	REMARKS	SUFFIX	A REF	. PARTS NO.	PARTS NAME	REMARKS	SUFFIX
050511W050 C.CAPACTION 0709F 30X 50V L L 7 VORDOSS-21 HOUCTON 05051W050 C.CAPACTION 0709F 30X 50V R T 10 050101-1-02 C.CAPACTION 0709F 30X 50V R T 10 050101-1-02 C.CAPACTION 0509F 30X 50V R T 10 05	BP4M3B	D PASS FILT				V@M7U02	OSC COIL (MW)		
05/01/14-120/ C.CPACTION COPPESSOR 140/ N. 12 (2007-17) C.RRONN RESISTENCE CONTRICTOR CO	CSB1HK	.CAPAC	10% 50			V@P0018	INDUCTOR		
CCAPACITION CCAPACITION CONTROLLED CCAPACITION C	ω.	١٠	F 30% 1				DUCTO		
0.000	~ ~	C.CAPACITOR	N N N				RBON	× ⁻	
0CCTIENT-CT3V C.CAPACITOR CARROLL RESIDENCE CARR	1 6	CAPACI	AF 20% 2			1	NORG	4 %	
0CCTIECT-120Y C.CAPACITOR 120PF X 50V R 13 0RD111-112 CARBON RESISTANCE CONTROL 120Y R 13 0RD111-112 CARBON RESISTANCE CONTROL 130Y R 13 0RD111-113 CARBON RESISTANCE CARBON RESISTANCE CONTROL 130Y R 13 0RD111-123 CARBON RESISTANCE CARBON RESISTANCE CONTROL 130Y R 13 0RD111-133 CARBON RESISTANCE CARBON RESISTANCE CONTROL 130Y R 13 0RD111-133 CARBON RESISTANCE CARBON RESISTANCE CONTROL 130Y R 13 0RD111-133 CARBON RESISTANCE CONTROL 130Y R 13 0RD1		CCAPACITOR	.010MF 30% 16V				RADN RF	100K 5% 1/6W	
QCCTSCCT-120Y C.CAPACTION L30PF 3X 100V R 15 GRD141-1102 CARBON RESISTANCE C.CAPACTION		C.CAPACITOR	.047MF 20% 25V				- W	1.0K 5% 1/6W	
C.CAPACITOR 1000PF 10X 50V R 26 08D661-112 C.RBGN RESISTED C.CAPACITOR 1000PF 10X 50V R 26 08D661-112 C.RBGN RESISTED C.CAPACITOR 1000PF 20X 16V R 36 08D661-123 C.RBGN RESISTED C.CAPACITOR 1000PF 10X 50V R 35 08D61-123 C.RBGN RESISTED C.CAPACITOR 1000PF 10X 50V R 35 08D61-123 C.RBGN RESISTED C.CAPACITOR 1000PF 10X 50V R 35 08D61-1-33 C.RBGN RESISTED C.CAPACITOR 1000PF 10X 50V R 35 08D61-1-33 C.RBGN RESISTED C.CAPACITOR 1000PF 10X 50V R 35 08D61-1-33 C.RBGN RESISTED C.CAPACITOR 1000PF 10X 50V R 46 08D61-1-33 C.RBGN RESISTED C.CAPACITOR 1000PF 10X 50V R 46 08D61-1-33 C.CAPACITOR 1000PF 10X 50V R 59 08D61-1-32 C.CAPACITOR 1000PF 10X 50V R 59 08D61-1-1-32 C.RBGN RESISTED C.CAPACITOR 1000PF 10X 50V R 59 08D61-1-1-32 C.RBGN RESISTED C.CAPACITOR 1000PF 10X 50V R 59 08D61-1-1-32 C.RBGN RESISTED C.CAPACITOR 1000PF 10X 50V R 59 08D61-1-1-32 C.RBGN RESISTED C.CAPACITOR 1000PF 10X 50V R 59 08D61-1-1-32 C.RBGN RESISTED C.CAPACITOR 1000PF 10X 50V R 59 08D61-1-1-32 C.RBGN RESISTED C.CAPACITOR 1000PF 10X 50V R 59 08D61-1-1-32 C.RBGN RESISTED C.CAPACITOR 1000PF 10X 50V R 59 08D61-1-1-32 C.RBGN RESISTED C.CAPACITOR 1000PF 10X 50V R 50 08D61-1-1-32 C.RBGN RESISTED C.CAPACITOR 1000PF 10X 50V R 50 08D61-1-1-32 C.RBGN RESISTED C.CAPACITOR 1000PF 10X 50V R 50 08D61-1-1-32 C.RBGN RESISTED C.CAPACITOR 1000PF 10X 50V R 50 08D61-1-1-32 C.RBGN RESISTED C.CAPACITOR 1000PF 10X 50V R 50 08D61-1-1-32 C.RBGN RESISTED C.CAPACITOR 1000PF 10X 50V R 50 08D61-1-1-32 C.RBG		PP CAPACITOR	430PF 5% 100V				REST	100K 5%	
C.CAPACITOR 1000PF 1002 50V R 2 0 001061-112 C CRR 0N RE15 C.CAPACITOR 100MF 20X 10V R 3 0 001061-123 C CRR 0N RE15 C.CAPACITOR 100MF 20X 10V R 3 0 001061-123 C CRR 0N RE15 C.CAPACITOR 100MF 20X 50V R 3 0 001061-133 C CRR 0N RE15 C.CAPACITOR 100MF 20X 50V R 3 0 001061-133 CAR 80N RE15 C.CAPACITOR 100MF 20X 50V R 3 0 001061-133 CAR 80N RE15 C.CAPACITOR 100MF 20X 50V R 4 0 001061-133 CAR 80N RE15 C.CAPACITOR 100MF 20X 50V R 5 0 001061-133 CAR 80N RE15 C.CAPACITOR 100MF 20X 50V R 7 0 001061-133 CAR 80N RE15 C.CAPACITOR 100MF 20X 50V R 7 0 001061-133 CAR 80N RE15 C.CAPACITOR 100MF 20X 50V R 7 0 001061-133 CAR 80N RE15 C.CAPACITOR 100MF 20X 50V R 7 0 001061-133 CAR 80N RE15 C.CAPACITOR 100MF 20X 50V R 7 0 001061-133 CAR 80N RE15 C.CAPACITOR 100MF 20X 50V R 7 0 001061-132 C CRR 80N RE15 C.CAPACITOR 100MF 20X 50V R 7 0 001061-132 C CRR 80N RE15 C.CAPACITOR 100MF 20X 50V R 8 5 0801061-132 CARACITOR 100MF 20X 50V R 8 5 0801061-132 C.CAPACITOR 100MF 20X 50V R 7 0 001061-132 CARACITOR 100MF 20X 50V R 8 5 0801061-132 CARACITOR 100MF 20X 50V R 6 0801061-132 CARACITOR 100MF 20X 50V R 6 0801061-132 CARACITOR 100MF 20X 50V R 7 1 1 VYX5044-001 CARACITOR 100MF 20X 50V R 7 1 VYX5044-001 CARACITOR 100MF 20X		C.CAPACITOR	12PF 5% 50V				REST	1.0K 5%	
C.CAACTIOR		C.CAPACITOR	F 10%			1		1.0K 5% 1/6W	
C. CAPACITOR		C.CAPACITOR	30%				RESIS	5.1K 5% 1/6W	
C.CAPACTIOR		E.CAPACITOR	100MF 20% 10V				RESIS	100K 5% 1/6W	
E.CAPACITOR		C.CAPACITOR	.010MF 30% 16V				RESIS	18K 5% 1/6W	
C.CAPACITOR 100MF 20% 50V R 55 0R05611-395 CARBON RESISTED CAPACITOR 100MF 20% 16V R 55 0R05611-395 CARBON RESISTED CAPACITOR 100MF 20% 16V R 55 0R05611-395 CARBON RESISTED CAPACITOR 100MF 20% 16V R 55 0R05611-185 CARBON RESISTED CAPACITOR 100MF 20% 50V R 58 0R05611-185 CARBON RESISTED CAPACITOR 100MF 20% 50V R 54 0R05611-202 CARBON RESISTED CAPACITOR 100MF 20% 50V R 54 0R05611-202 CARBON RESISTED CAPACITOR 100MF 20% 50V R 56 0R05611-202 CARBON RESISTED CAPACITOR 100MF 20% 50V R 56 0R05611-202 CARBON RESISTED CAPACITOR 100MF 10% 50V R 56 0R05611-202 CARBON RESISTED CAPACITOR 100MF 10% 50V R 55 0R05611-202 CARBON RESISTED CAPACITOR 100MF 10% 50V R 55 0R05611-202 CARBON RESISTED CAPACITOR 100MF 10% 50V R 55 0R05611-202 CARBON RESISTED CAPACITOR 100MF 10% 50V R 55 0R05611-102 CARBON RESISTED CAPACITOR 100MF 10% 50V R 55 0R05611-102 CARBON RESISTED CAPACITOR 100MF 10% 50V R 55 0R05611-102 CARBON RESISTED CAPACITOR 100MF 10% 50V R 55 0R05611-102 CARBON RESISTED CAPACITOR 100MF 10% 50V R 55 0R05611-102 CARBON RESISTED CAPACITOR 100MF 10% 50V R 55 0R05611-102 CARBON RESISTED CAPACITOR 100MF 10% 50V R 70 0R05611-102 CARBON RESISTED CAPACITOR 100MF 10% 50V R 70 0R05611-102 CARBON RESISTED CAPACITOR 100MF 10% 50V R 70 0R05611-102 CARBON RESISTED CAPACITOR 100MF 10% 50V R 70 0R05611-102 CARBON RESISTED CAPACITOR 100MF 10% 50V R 70 0R05611-102 CARBON RESISTED CAPACITOR 100MF 10% 50V R 70 0R05611-102 CARBON RESISTED CAPACITOR 100MF 10% 50V R 70 0R05611-102 CARBON RESISTED CAPACITOR 100MF 10% 50V R 70 0R05611-102 CARBON RESISTED CAPACITOR 100MF 10% 50V R 70 0R05611-102 CARBON RESISTED CAPACITOR 100MF 10% 50V R 70 0R05611-102 CARBON RESISTED CAPACITOR 100MF 10% 50V R 70 0R05611-102 CARBON RESISTED CAPACITOR 100MF 10% 50V R 70 0R05611-102 CARBON RESISTED CAPACITOR 100MF 10% 50V R 70 0R05611-102 CARBON RESISTED CAPACITOR 100MF 10% 50V R 70 0R05611-102 CARBON RESISTED CAPACITOR 100MF 10% 50V R 70 0R05611-102 CARBON RESISTED CAPACITOR 100MF 10% 50V R 70 0R05611-102 CARBON RESISTED CAPACITOR 100MF 10% 50V R 70 0R05611-102 CARBON R		E.CAPACITOR	4.7MF 20% 50V				RESIS	22K 5% 1/6W	
E.CAPACITOR	1	C.CAPACITOR	1000PF 10% 50V				RESIS	100 5% 1/6W	
CCCOLILEM - 279 C.APACITOR O.YMF 20x 25V R 37 STO 661-1-533 CARBON RESISTED CONTINUED TO C.APACITOR O.YMF 20x 25V R 35 STO 661-1-533 CARBON RESISTED CONTINUED TO C.APACITOR O.YMF 20x 25V R 35 STO 661-1-633 CARBON RESISTED CONTINUED TO C.APACITOR C.		E.CAPACITOR	1.0MF 20% 50V				RESIS	39K 5% 1/6W	
CCC11M-102 C.CAPACITOR .007MF 20X 25V R 35 0RD161J-183 CARBON RESISTED .010MF 30X 16V .010MF 3		E.CAPACITOR	10MF 20% 16V				RESIS	39K 5% 1/6W	
QECCHINGTON CARRENTE STATE CARRENTE S		C.CAPACITOR					RESIS	56 5% 1/6W	
Exercise		C.CAPACITOR					RESIS	18K 5% 1/6W	
CALCHIN-LOST CAPACITOR C		E.CAPACITOR					F.	18K 5% 1/6W	
CARPONE CARPOTTOR CARPOTTOR CARPONE S.		E.CAPACITOR					RESI		
CARDIN C		M CAPACITOR					RESI		
E.CAPALITOR		M CAPACITOR	2%				RESI		
E.CAPACITOR 100PF 10% 50V R 52 GRB0141J-472 CARBON RESISTOR 4.7K 5% C.CAPACITOR 1000PF 10% 50V R 55 GRB014J-422 CARBON RESISTOR 2.2K 5% C.CAPACITOR 1000PF 10% 50V R 55 GRB014J-022 CARBON RESISTOR 2.2K 5% C.CAPACITOR 1000PF 10% 50V R 55 GRB014J-102 CARBON RESISTOR 1.0K 5% C.CAPACITOR 1000PF 10% 50V R 57 GRB014J-102 CARBON RESISTOR 1.0K 5% C.CAPACITOR 1000PF 10% 50V R 51 GRB014J-102 CARBON RESISTOR 1.0K 5% C.CAPACITOR 1000PF 10% 50V R 51 GRB014J-102 CARBON RESISTOR 1.0K 5% C.CAPACITOR 1000PF 10% 50V R 51 GRB014J-102 CARBON RESISTOR 1.0K 5% C.CAPACITOR 1000PF 10% 50V R 51 GRB014J-102 CARBON RESISTOR 1.0K 5% C.CAPACITOR 2200PF 20% 16V T CAPACITOR 2200PF 20% 16V T CAPACITOR 2200PF 20% 16V T T 2 4/27721J-112 IF 10% 50V T CAPACITOR 2200PF 20% 50V T CAPACITOR 2200PF 10% 50V T CAPACITOR 2200PF 20% 16V T T 2 4/27721J-112 IF 10% 50V T CAPACITOR 2200PF 20% 16V T T 2 4/27721J-112 IF 10% 50V T CAPACITOR 2200PF 20% 16V T T 2 4/27721J-112 IF 10% 50V T CAPACITOR 2200PF 20% 16V T T 2 4/27721J-112 IF 10% 50V T CAPACITOR 2200PF 20% 16V T T 2 4/27721J-112 IF 10% 50V T T 2 4/27721J-112 IF 10	ETC1HM-104Z		20%			_	RESI	1.0K 5%	
C.CAPACITOR 1000PF 10% 50V R 55 GRD16/1-222 CARBON RESISTOR 2.2K 5% C.CAPACITOR 1000PF 10% 50V R 56 GRD16/1-222 CARBON RESISTOR 3.1K 5% C.CAPACITOR 1000PF 10% 50V R 56 GRD16/1-322 CARBON RESISTOR 3.1K 5% C.CAPACITOR 1000PF 10% 50V R 56 GRD16/1-102 CARBON RESISTOR 1.0K 5% C.CAPACITOR 1000PF 10% 50V R 60 GRD16/1-102 CARBON RESISTOR 1.0K 5% C.CAPACITOR 1000PF 10% 50V R 60 GRD16/1-102 CARBON RESISTOR 1.0K 5% C.CAPACITOR 1000PF 10% 50V R 60 GRD16/1-102 CARBON RESISTOR 1.0K 5% C.CAPACITOR 1000PF 10% 50V R 60 GRD16/1-102 CARBON RESISTOR 1.0K 5% C.CAPACITOR 2200PF 20% 16V R 64 GRD16/1-102 CARBON RESISTOR 1.0K 5% C.CAPACITOR 2200PF 20% 16V R 64 GRD16/1-102 CARBON RESISTOR 1.0K 5% C.CAPACITOR 2200PF 20% 16V R 64 GRD16/1-102 CARBON RESISTOR 1.0K 5% C.CAPACITOR 2200PF 20% 50V R 64 GRD16/1-102 CARBON RESISTOR 1.0K 5% C.CAPACITOR 2200PF 20% 16V R 64 GRD16/1-102 CARBON RESISTOR 1.0K 5% C.CAPACITOR 2200PF 20% 16V R 64 GRD16/1-102 CARBON RESISTOR 1.0K 5% C.CAPACITOR 2200PF 20% 16V R 64 GRD16/1-102 CARBON RESISTOR 1.0K 5% C.CAPACITOR 2000PF 10% 50V R 64 GRD16/1-102 CARBON RESISTOR 1.0K 5% C.CAPACITOR 2000PF 10% 50V R 7 2 VIT7A21-112 R 8 2 CABBON RESISTOR 1.0K 5% R	270		20%			1	RESI	4.7K 5%	
QCBBIHK-102Y C.CAPACITOR 1000PF 10% 50V R 55 GRD1641-222 CARBON RESISTOR 2.X5 5% QCCBBIHK-102Y C.CAPACITOR 1000PF 10% 50V R 55 GRD1641-222 CARBON RESISTOR 1.X5 5% QCCBBIHK-102Y C.CAPACITOR 1000PF 10% 50V R 55 GRD1641-102 CARBON RESISTOR 1.0K 5% QCTALAM-107 E.CAPACITOR 1000PF 10% 50V R 60 GRD1641-102 CARBON RESISTOR 1.0K 5% QCTSDHK-102Y C.CAPACITOR 1000PF 10% 50V R 60 GRD1641-102 CARBON RESISTOR 1.0K 5% QCCBBIHK-102Y C.CAPACITOR 1000PF 10% 50V R 64 GRD1641-102 CARBON RESISTOR 1.0K 5% QCCBBIHK-102Y C.CAPACITOR 1000PF 10% 50V R 64 GRD1641-102 CARBON RESISTOR 1.0K 5% QCCBBIHK-102Y C.CAPACITOR 2000PF 10% 50V T 2 VOTAACITOR 2000PF 10% 50V QCCBBIHK-102Y C.CAPACITOR 1000PF 10% 50V T 2 VOTAACITOR 100 PF 10% 50V QCTBIHK-102Y C.CAPACITOR 1000PF 10% 50V T 2 VOTAACITOR 100 PF 10% 50V CCTATACITOR 2000PF 10% 50V X 1 VXX2015-002 P 1N SOCKET CLICAPACITOR 2000PF 10% 50V <			10%			14 QRD161J-222	RESI	2.2K 5%	
QCYCHAKA102 C.CAPACITOR 1000PF 10X 50V R 59 RD161J-102 CARBON RESISTOR 3.X 5X QCEDILAM-102Y C.CAPACITOR 1000PF 10X 50V R 59 RD161J-102 CARBON RESISTOR 1.0K 5X QCEDILAM-102Y C.CAPACITOR 1000PF 10X 50V R 61 RD161J-102 CARBON RESISTOR 1.0K 5X QCEDILAM-102Y C.CAPACITOR 12PF 5X 50V R 61 RD161J-102 CARBON RESISTOR 1.0K 5X QCEDILAM-102Y C.CAPACITOR 12PF 5X 50V R 61 RD161J-102 CARBON RESISTOR 1.0K 5X QCEDILAM-102Y C.CAPACITOR 12PF 5X 50V R 64 RD161J-102 CARBON RESISTOR 1.0K 5X QCEDILAM-225A C.CAPACITOR 2200PF 20X 16V R 64 RD161J-102 CARBON RESISTOR 1.0K 5X QCETILM-225A C.CAPACITOR 2200PF 20X 16V T 7 2 VAT721-112 T 7 2 VAT721-112 CETILM-225A C.CAPACITOR 2200PF 20X 16V X 1 VCX504-001 T 2 VAT7AL CETILM-225A C.CAPACITOR 2200PF 10X 50V X 1 VCX504-001 X 1 VCX504-001 CFT2AB-102 CRNETT X 1 VCX504-001 R 2 VATACITOR X 1 VCX504-001 CFT2AB-102 CRM CATACITOR			10%			5 QRD161J-222	RESI	2.2K 5%	
C.CAPACITOR 1000FF 10% 50V E.CAPACITOR 100MF 20% 10V C.CAPACITOR 100MF 20% 10V C.CAPACITOR 100MF 20% 10V C.CAPACITOR 100MF 20% 10V C.CAPACITOR 100MF 10% 50V C.CAPACITOR 100MF 10% 50V C.CAPACITOR 100MF 10% 50V C.CAPACITOR 100MF 10% 50V E.CAPACITOR 100MF 10% 50V C.CAPACITOR 100MF 10% 50V E.CAPACITOR 220MF 10% 50V T. VATOR 10 MF		C.CAPACITOR	10%			66 QRD167J-332	RESI	3.3K 5%	
E.CAPACITOR 100MF 20% 10V E.CAPACITOR 100MF 20% 10V C.CAPACITOR 100MF 10% 50V C.CAPACITOR 100MF 10% 50V C.CAPACITOR 10MPF 10% 50V C.CAPACITOR 10MPF 10% 50V C.CAPACITOR 10MPF 10% 50V C.CAPACITOR 10MPF 10% 50V C.CAPACITOR 20MPF 10% 50V E.CAPACITOR 20MPF 10% 50V C.CAPACITOR 20MPF 20% 50V E.CAPACITOR 20MPF 10% 50V C.CAPACITOR 20MPF 10% 50V T. 2 WITCAL-112 IF E.CAPACITOR 20MPF 10% 50V T. 2 WITCAL-2002 PIN SOCKET C.CAPACITOR 3.3MF 20% 50V T. 2 WITCAL-2002 PIN SOCKET C.CAPACITOR 3.3MF 20% 50V T. 2 WITCAL-2002 PIN SOCKET C.CAPACITOR 3.3MF 20% 50V T. 2 WITCAL-2002 PIN SOCKET C.CAPACITOR 3.3MF 20% 50V T. 2 WITCAL-2002 PIN SOCKET C.CAPACITOR 3.3MF 20% 50V T. 2 WITCAL-2002 PIN SOCKET C.CAPACITOR 3.3MF 20% 50V T. 2 WITCAL-2002 PIN SOCKET C.CAPACITOR 3.3MF 20% 50V T. 2 WITCAL-2002 PIN SOCKET C.CAPACITOR 3.3MF 20% 50V T. 2 WITCAL-2002 PIN SOCKET C.CAPACITOR 3.3MF 20% 50V T. 2 WITCAL-2002 PIN SOCKET C.CAPACITOR 3.3MF 20% 50V T. 2 WITCAL-2002 PIN SOCKET C.CAPACITOR 3.3MF 20% 50V T. 2 WITCAL-2002 PIN SOCKET C.CAPACITOR 3.3MF 20% 50V T. 2 WITCAL-2002 PIN SOCKET C.CAPACITOR 5.0MF 20% 50V T. 2 WITCAL-2002 PIN SOCKET C.CAPACITOR 5.0MF 20% 50V T. 2 WITCAL-2002 PIN SOCKET C.CAPACITOR 5.0MF 20% 50V T. 2 WITCAL-2002 PIN SOCKET C.CAPACITOR 5.0MF 20% 50V T. 2 WITCAL-2002 PIN SOCKET C.CAPACITOR 5.0MF 20% 50V T. 2 WITCAL-2002 PIN SOCKET C.CAPACITOR 5.0MF 20% 50V T. 2 WITCAL-2002 PIN SOCKET C.CAPACITOR 5.0MF 20% 50V T. 2 WITCAL-2002 PIN SOCKET C.CAPACITOR 5.0MF 20% 50V T. 2 WITCAL-2002 PIN SOCKET C.CAPACITOR 5.0MF 20% 50V T. 2 WITCAL-2002 PIN SOCKET C.CAPACITOR 5.0MF 20% 50V T. 2 WITCAL-2002 PIN SOCKET C.CAPACITOR 5.0MF 20% 50V T. 2 WITCAL-2002 PIN SOCKET C.CAPACITOR 5.0MF 20% 50V T. 2 WITCAL-2002 PIN SOCKET C.CAPACITOR 5.0MF 20% 50V T. 2 WITCAL-2002 PIN SOCKET C.CAPACITOR 5.0MF 20% 50V T. 2 WITCAL-2002 PIN SOCKET C		C. CAPACITOR	10%		-	7 QRD161J-102	RESI	1.0K 5%	
C.CAPACITOR 12PF 5% 50V C.CAPACITOR 12PF 5% 50V C.CAPACITOR 1000PF 10% 50V C.CAPACITOR 2.2MF 20% 30V C.CAPACITOR 2.2MF 20% 50V C.CAPACITOR 2.2MF 20% 50V C.CAPACITOR 2.2MF 20% 50V C.CAPACITOR 2.2MF 20% 50V C.CAPACITOR 3.3MF 20% 50V C.CAPACITOR 3.3MF 20% 50V C.CAPACITOR 2.2MF 20% 50V C.CAPACITOR 3.3MF 20% 50V C.CAPACITOR 3.3MF 20% 50V C.CAPACITOR 3.3MF 20% 50V C.CAPACITOR 1000PF 10% 50V C.CAPACITOR		E.CAPACITOR	20% 1			9 @RD161J-102	RESISTO	3%	
C.CAPACITOR 1000PF 10% 50V C.CAPACITOR 1000PF 10% 50V C.CAPACITOR 1000PF 10% 50V C.CAPACITOR 1000PF 10% 50V C.CAPACITOR 2200PF 20% 16V C.CAPACITOR 2200PF 20% 16V C.CAPACITOR 2200PF 20% 16V C.CAPACITOR 2200PF 20% 50V C.CAPACITOR 3.3MF 20% 50V C.CAPACITOR 4.0MF 1.0K 50V C.CAPACITOR 5.0MF 20% 50V C.CAPACITOR 6.0MF 20% 50V C.CAPACITOR 7.0MF 20% 50V C.CAPACIT		C.CAPACITOR	20				RESIS	2%	
C.CAPACITOR 12PF 5% 50V C.CAPACITOR 12PF 5% 50V C.CAPACITOR 2200PF 20% 16V C.CAPACITOR 2200PF 20% 16V C.CAPACITOR 2200PF 20% 16V C.CAPACITOR 2.2MF 20% 50V C.CAPACITOR 3.3MF 20% 50V C.CAPACITOR 3.3MF 20% 50V C.FILTER 1000PF 10% 50V C.FILTER CAPACITOR 3.3MF 20% 50V C.FILTER CAPACITOR 1000PF 10% 50V C.FILTER CAPACITOR 1000PF 1		C.CAPACITOR	10%				RESIS	.0K 5% 1/	
C. CAPACITOR 22000F 20X 50V TC 2 0AITA2112 IT 2 CAPACITOR 22000F 20X 50V TC 2 AITA214-2002 TF 2 CAPACITOR 2.2MF 20X 50V TF 1 VM20015-002 PT E.CAPACITOR 3.3MF 20X 50V TP 2 VM20015-002 PT 2 CAPACITOR 1000PF 10X 50V TP 2 VM20015-002 PT 2 CAPACITOR 1000PF 10X 50V TP 2 CAPACITOR CONNECTOR CONNECTOR CONNECTOR SI DIODE SI DIODE SI DIODE SI DIODE SI DIODE VARI CAP DIODE SI DIODE VARI CAP CAPACITOR CONNECTOR SI DIODE SI DIODE SI DIODE SI DIODE SI DIODE CAPACITOR CONNECTOR SI DIODE SI		C.CAPACITOR	200				RESIS	.0K 5% 1/	•
E.CAPACITOR 2.2MF 20% 3.0V		C.CAPACITOR	10%	CONTRACTOR A SECURIT OF STATEMENT OF STATEME	- 1	VGI/AZI	1 7 1		The second secon
E.CAPACITOR 2.71N 2002 71N 2000 71N 2002 71N 200	SCXB1CM-RZZZ	C.CAPACI-OR	200Pr 20%		٢ -	WA 5114	DIN SOCKET		
C. CAPACITOR 1000PF 10% 50V C. FILTER C. F	CELCINELCZOCE	E.CAPACION	ZMF 20% 0			VMZOO1S	PIN SOCKET		
C FILTER C FILTER C FILTER C FILTER C CONNECTOR CONNECTOR CONNECTOR AL VARI CAP SI DIODE VARI CAP DIODE VARI CAP RF COIL	2000 MH 1000	C CATACLOR	10000		- ;	CTOOTEA	PIN SUCKE		
AL	CCBBIHK-IOZ	C.CATACION	10%		<	VCX5044	CRISIAL		
AB-AL AB-AL	VCE1727-1177	C FILTER			1				
ABB-AL	CM10+25605	- 0							-
AB-AL AB-AL 9	0 00	CONNECTOR							
AB-AL AB-AL	TXLP-004-B	CONNECTOR							
AB-AL	A B						_		
17 -019 -002	AB	VARI					Annual An		
17 0-019 0-002	188133	SI DIODE							
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2008N 72136 F1B20-019	KV1555NI								
72136 71820-019 71505-002	T 000 T	1000							
F1B20-019	7213								
	V@F1B20-019	0SC C01L							
	Vac1505-002	RF COIL							

1 2 3 4 5

■ CD amplifier board

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В

С

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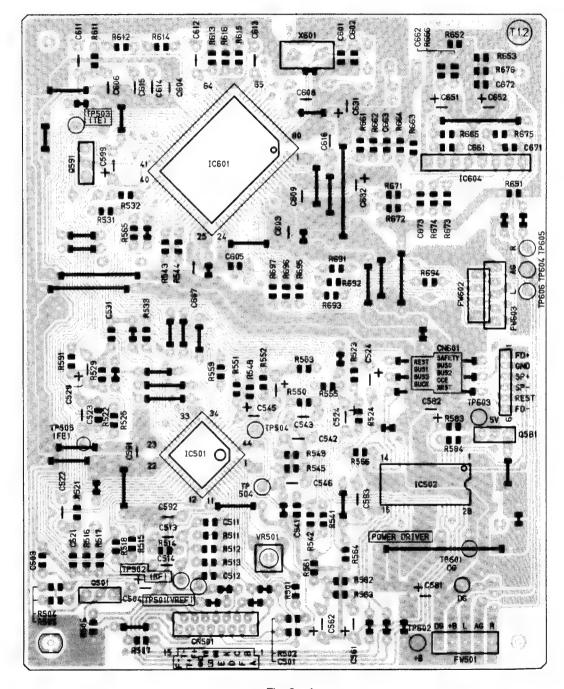


Fig. 8 – 4

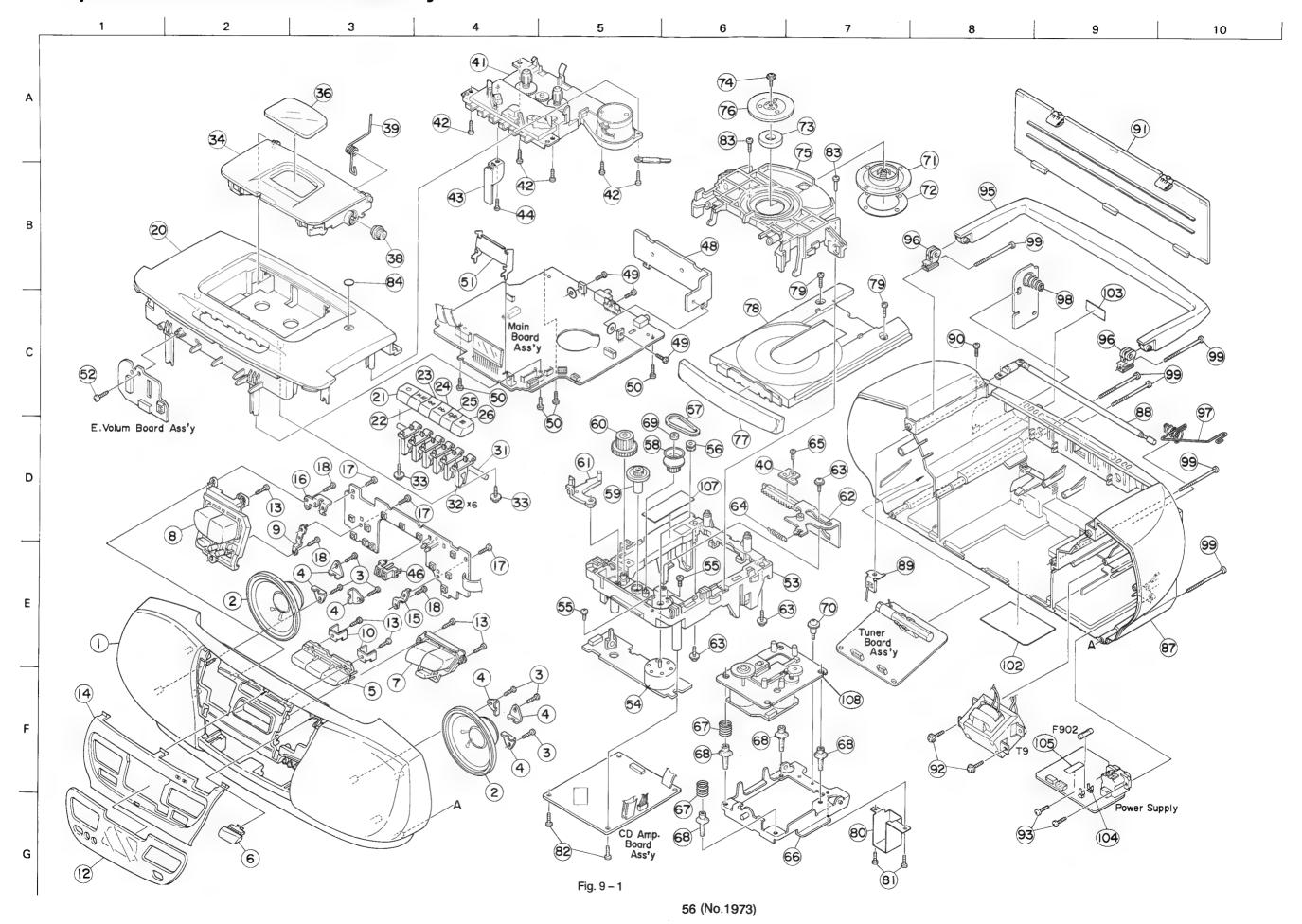
● CD amplifier board parts list

SUFFIX																													The state of the s																					
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PARTS	. CAPACITO	. CAPACITOR	. CAPACITOR	. CAPACITOR	. CAPACITOR	ILM CAPACITOR	CAPACITOR	. CAPACITOR	ILM CAPACITOR	ILM CAPACITOR	. CAPACITOR	.CAPACITOR	.CAPACITOR	.CAPACITOR	CAPACITOR	ILM CAPACITOR	ILM CAPACITOR	CAPACITOR	CAPACITOR	CAPACITOP	CAPACITOR	CAPACITOR	CAPACITOR	CAPACITOR	ILM CAPACITOR	ILM CAPACITOR	CAPACITOR	CAPACITOR	CAPACION	C.CAPACITOR	SAPACIOR	CAPACITOR	CAPACITOR	CAPACITOR	CAPACITOR	CAPACI-OX	ILM CAPACITOR	CAPACITOR	CAPACITOR	CAPACITOR	CAPACITOR	CAPACIOR	CAPACITOR	٩.						
PARTS	асввінк-82	QCVB1CN-1	QEK41EM-10	QCSB1HJ-3R	QCS31HJ-27	QFV41HJ-10	QFN41HJ-4	QC8B1HK-33	QFV81HJ-47	QFV81HJ-15	QEK41EM-1	QEK41EM-106	QETC1AM-336	QCVB1CM-82	QCBB1HK-101	QFV71HJ-103	QFV41HJ~39	AE CIMM " 223	OFTR1	OF T & 1 AM - 4 7	QET41HM-47	QET41AM-47	GET41AM-47	QCC11EM-104	QFV41H	QFV41HJ-104	QET41A	GCS11H	10000	OCC11EM-104V	QCVB1C	QCC11E	QCC11E	OCC11E	1000	OFV71H	QFV71H	QFN41H	QFN41H	QCC11E	GET41A	OFT 41A	QET41C	QCBB1H	QCBB1H	QCS11H	QCBB1H	QCBB1H	GCS11HJ-120	EMV 7144-01
	501	503	504	511	512	513	514	521	525	523	524	525	529	531	541	245	240	0 4 0	547	561	562	581	585	591	265	593	200	001	200	209	605	909	209	809	7 6 6 6 7 4	612	613	614	615	616	651	651	652	661	662					

	LVKI	FARIS NAME	KEMAKKS	SUFFIX
2	6398F	ıc		
	C9284B	IC		
	A15218N	U		
	SA952	RANSISTO		
-+	SA952(L,K	RANSIST		
	A11/5	RANSISTOR		
	001411-1	STOTE ACCOUNT	R IZOR SZ I/	
	D1411-20	ARBON REVISED	K 10K 5% 1/6W	
	R01611-1	PERSON NEGRO	A C A C A C A C A C A C A C A C A C A C	
4	RD161J-10	APPON PESTOTE	D 100 5% 1/	
	RD1613-12	ARBON RESIST	R 12 5% 1/6	
	RD161J-18	ARBON RESISTO	R 18K 5% 1/	
_	RD161J-39	ARBON RESIST	R 3.9K 5% 1	
m	RD167J-33	ARBON RESIST	R 3.3K 5% 1/6	
4	RD161J-47	ARBON RESISTO	R 4.7K 5% 1/6	
S.	RD161J-10	ARBON RESISTO	R 10K 5% 1/6	
vo	RD161J-1C	ARBON RESISTO	R 10K 5% 1/	
~	RD161J-20	ARBON RESISTO	R 2.0K 5% 1/	
Ø	RD1611-33	ARBON RESISTO	R 3.3M 5% 1/6	
4	RD161J-15	ARBON RESISTO	R 150K 5% 1	
O.	RD161J-39	ARBON RESISTO	R 3.9K 5% 1/	
23	RD161J-33	ARBON RESISTO	E 330 5% 1/6W	
4	RD161J-47	ARBON RESISTO	R 4.7K 5% 1/	
ī	RD161J-47	ARBON RESISTO	R 4.7K 5% 1/6	
0	RD167J-56	ARBON RESISTO	R 5.6K 5% 1/6	
7	RD161J-47	ARBON RESISTO	R 47K 5% 1/6W	
C)	RD161J-1C	ARBON RESISTO	R 100K 5% 1/	
M	RD161J-15	ARBON RESISTO	R 15K 5% 1/6W	-
-1	RD161J-12	ARBON RESISTO	R 12K 5% 1/	
2	RD167J-33	ARBON RESISTO	R 3.3K 5% 1/	
m	RD161J-47	ARBON RESISTO	R 47K 5% 1/6	
	RD161J-22	ARBON RESISTO	R 22K 5% 1/6	
10	RD161J-10	ARBON RESISTO	R 10K 5% 1/6	
m	RD161J-15	ARBON RESISTO	R 15K 5% 1/6	
-	RD161J-82	ARBON RESISTO	R 820 5% 1/6	
_	RD161J-10	ARBON RESISTO	R 100K 5% 1/	
_	RD161J-22	ARBON RESISTO	R 22K 5% 1/6	
ο.	RD167J-56	ARBON RESISTO	R 5.6K 5% 1/	
<u>.</u>	3D161J-82	ARBON RESISTO	R 820 5% 1/6	
~ (70161J-39	ARBON RESISTO	3.9K 5% 1/6	
-	21-010107	RBON RESISTO	1.2M 5% 1/	
	001070107	ARBON RESISTO	5.6K 5% 1/6	
\ . N	201017170	RESISTO	1.0K 5% 1/	
0	701010-10	RESISTO	1.5K 5% 1/6	
+ 14	10		5.5K 5% 1/	
	7010101000	TABON KENINGO	08K 5% 1/6	
-	7444	0 - 0 - 0 - 0 - 0 - 0 - 0 - 0 - 0 - 0 -	400 FE 1/6	
	70101110	ARGON KRAIN-O	100 5% 1	
	201611-47	DECT OF TOTAL	1.5K 5% 1/	
	3D161J-10	REON RESIDEN	1 OK 78 1/0	
ø	RD1611-103	STO	1/4	
	3D161J-22	REON RESTSTO	2000	
			A / 1 / 2 / 2 / 2 / 2 / 2 / 2 / 2 / 2 / 2	

SUFFIX																																
REMARKS	2 W C 4 / 1	77 90 174	2K 3% 1/	M9/1 25 2	75 52 1/6	/K 5% 1/6W	80K 58 1/	0 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	00K 5% 1/6	00X 54 1/6	20 20 20 20	07 08 170W	200	80K 5% 1/	00K 5K 1/6	OK 5% 1/6W	OK 5% 1/6	80 5% 1/6	680 5% 1/6W	80 5% 1/6	80 5% 1/6	80 5% 1/6	80 5% 1/6	80 5% 1/6			THE REPORT OF THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NAMED					
PARTS NAME	ADBON DECTOTOR		SOLOTON MODES	ARBON RESISTOR	ARGON RESIDEDE	ARBON REVISION	ADBON REVISION	SOLUTION NOOR	ANDON RESIDENCE	APRON RESISTOR	ADDOTOTOTO MODERA	APPON PERTOTOR	A CONTRACTOR OF	ADBON RESISION	ARBON RESISTOR	ARBON RESISTOR	ARBON RESISTOR	ARBON RESISTOR	CARBON RESISTOR	ARBON RESISTOR	RESISTO	ERA LOC	The state of the s					-				
PARTS	RD1411-22	PD141-12	00141100	701010100	777777777777777777777777777777777777777	101010100	201013-10 20141-14	20141110	011111	RD1611-10	2017	RD161.1-18	20141110	201611-10	RD161J-10	RD161J-10	3D161J-10	3D161J-68		3D161J-68	3D161J-68	10161J-68	301611-68	3D161J-68	/PA601-154A	SA16.93MX	And the second s					
E F.	615	4	7 7 7	7 2 2	7 6	244	2 6	× 0 × 0	7 4 4	6 6 5	999	671	672	673	674	675	676	691	R 692	693	4 0 0	0 0 0	969	269	R 501	0.1						 -

9. Exploded View of Enclosure Assembly



Enclosure component parts list

BLOCK	NO	M1MM	_
BLUCK	10 ()	11.11 T B. 21.11	

	BLOCK NO. ELEMITE							
Δ	REF.	PARTS NO.	PARTS NAME	REMARKS	QTY	SUFFIX	CLR	
H	1	VJG1373-00A	FRONT C.ASS'Y	ORDER BY JVC PT	1		 	
	- }	VGS1001-038	SPEAKER		2			
	- 1	SBSF3008Z	SCREW	FOR SPEAKER	6			
	1	VYH8087-001	SPK. CLAMP	ORDER BY JVC PT	6		1	
1	t	VXP3740-001	CD SEARCH BUTTO	ORDER BY JVC PT	1			
\vdash		VXP3740-001	POWER BUTTON	40010-205-00-01	1			
	1	VXP2118-001	FUNCTION BUTTON	ORDER BY JVC PT	1			
			VOLUME BUTTON	OKDEK BI OVO II	1			
	1	VXP2117-001	SW PWB BKT(D)	ORDER BY JVC PT	1			
	3	VKL7824-002	SW PCB SUPP.BKT	50010-137-00-01	2			
H		VKL7836-001		ORDER BY JVC PT	1			
	1	VJK2204-002	LCD LENS		5			
	1	SBSF2608Z	SCREW	FOR BUTTON	1 1			
		VJD2463-002	FRONT COVER(B)	ORDER BY JVC PT	1			
		VKL7817-001	SW PWB BKT(A)	50010-131-00-01	1			
		VKL7823-002	SW PWB BKT(C)	ORDER BY JVC PT	1 1			
		SDSP3004Z	SCREW	FOR SW PWB + BK	3			
		SBSF2608Z	SCREW	FOR SW BKT+F.CA	3		ľ	
	20	VJD1205-004	TOP COVER	40010-455-04-01	1			
	21	VXP2113-001	MECHA BUTTON	40010-217-00-01	1			
	22	VXP2113-002	MECHA BUTTON	40010-218-00-01	1			
		VXP2113-003	MECHA BUTTON	40010-219-00-01	1			
	24	VXP2113-004	MECHA BUTTON	40010-220-00-01	1			
	2.5	VXP2113-005	MECHA BUTTON	40010-221-00-01	1			
		VXP2113-006	MECHA BUTTON	40010-222-00-01	1			
		VYH7877-002	SHAFT	50010-221-00-01	1		1	
\vdash		VYH8006-001	BUTTON LEVER	40010-652-00-01	6			
		E65923-003	TAPPING SCREW		2			
		VJT2363-001	CASSETTE DOOR	40010-304-00-01	1			
		VJT4229-001	DOOR LENS	40010-346-02-01	1			
			GEAR	40010-548-02-01	1			
\vdash		VYH8007-001	DOOR SPRING(L)	71100-044-01-01	1		-	
		VKW5213-002		40010-507-00-01	1			
		VE406291-001	PLATE		1 1			
	41		C.MECHA ASS'Y	SINGLE C MECHA	1			
		SBSF3010Z	SCREW	FOR CASS.MECHA	5			
\vdash		VKY4719-001	REC SPRING	71100-059-02-00	1			
		SDST2003Z	SCREW	FOR REC SPRING	1			
	-	VKS5564-001	LED HOLDER	40010-501-00-01	1			
	- 1	VYH3900-002	HEAT SINK	78000-007-02-00	1			
		SDSP3008Z	SCREW	IC&TRANSISTOR+H	3			
		SBSF3010Z	SCREW	MAIN+TOP COVER	4			
Π	51	VKL7813-001	LCD HOLDER	50010-136-00-01	1			
		SBSF3010Z	SCREW	E.VOL.PWB+TOP C	1			
	53	VYH1255-001	LOADING BASE	40010-506-00-01	1			
	i	RF-500TB-12560	MOTOR		1			
		SPSK2640Z	MINI SCREW		2			
\sqcap		VE75984-001	MOTOR PULLEY	40010-681-00-01	1			
		VE75950-002	BELT	77100-003-01-00	1			
	1	VE75985-001	GEAR(1)	40010-601-00-01	1			
	,	VE75986-002	GEAR(2)	40010-602-00-01	1			
	i	VE75987-001	GEAR(3)	40010-603-00-01	1			
+		VE73987-001 VE307162-001	LEVER	40010-651-00-01	1			
				40010-653-00-01	1			
		VE307160-001	CAM COREU					
		E65923-003	TAPPING SCREW	70330-800-02-02	3			
	1	VYH7787-001	SPRING	71100-049-01-01	1			
Ш	65	SBSF3008Z	SCREW	PLATE + L.BASE	1			

Δ	REF.	PARTS NO.	PARTS NAME	REMARKS	QTY	SUFFIX	CLR
	66	VE307179-002	E.BASE ASS'Y	50010-134-00-01	1		
-	67	E406871-001	SPRING	71100-047-01-01	2		
	86	VE406294-002	INSULATOR	76402-002-01-01	4		
	69	VE60912-001	SPEED NUT	40010-441-00-01	1		
-	70	E406293-001	SPECIAL SCREW	70326-600-01-02	1		
	71	VYH3901-001	CLAMPER	40010-505-00-01	1		
	72	VYH7315-005	PAD	76300-014-02-02	1		
	73	VYH7313-004	MAGNET	38300-003-01-01	1		
İ	74	GBSF2606Z	SCREW	70026-726-06-52	1		
ĺ	75	VYH2314-001	CLAMPER BASE	40010-508-00-01	1		ļ
1	76	VYH3764-001	CLAMPER PLATE	50010-101-00-01	1		
1	77	VJD2462-008	CD FITTING	40010-303-12-01	1		
1	78	VYH1256-001	TRAY	40010-104-00-01	1		
	79	SBSF3008Z	SCREW	FOR TRAY STOPPE	2		
	80	VMA4660-001	SHIELD CASE	50010-135-00-01	1		
	81	SDSR2606Z	SCREW	SHIELD CASE+CD	2		
	82	SBSF3008Z	SCREW	CD AMP PWB + L.	2		
1	83	SBSF3008Z	SCREW	CLAMPER BASE+L.	2		
-	84	VJD5458-001	PLATE	ORDER BY JVC PT	1		
-	87	VJG1374-001	REAR CABINET	40010-102-00-01	1		
	88	215-021704-00	ANT. ROD	77001-002-01-02	1		
1	89	VKL7814-001	TERMINAL LUG	50010-103-00-01	1		
	90	SDSP3012N	SCREW	FOR ROD ANT.	1		
	91	VJC2554-001	BATTERY COVER	40010-452-00-01	1		
	92	GBSF3016Z	SCREW	FOR TRANS	2		
Ī	93	SBSF3010Z	SCREW	FOR AC	2		
ļ	95	VJH2015-001	HANDLE	40010-391-00-01	1	}	
Ì	96	VYH8008-001	HANDLE SUPPORTE	40010-503-00-01	2		
ŀ	97	VKW5212-001	BATTERY SPRING	71100-050-01-01	1		
ļ	98	207-003305-00	BATTERY SPRING	71100-048-01-01	1		
	99	SBSF3040Z	SCREW	FRONT+REAR	6		
Í	102	VYN5202-002	NAME PLATE	77200-277-01-01	1	В	
		VYN5202-008	NAME PLATE		1	G	
į		VYN5202-005	NAME PLATE		1	E, EN	
-	103	E70891-001	CLASS 1 LABEL	77200-161-01-01	1		
\neg	4.0.7		THOS HOLDED	E00 E000	1		

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77200-162-01-01

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BLOCK NO. MIMM

104 VPZ0125-001Z 105 VND4003-081 107 E406709-001

108 -----

F 902 QMF51E2-2R5J1 T 9 V-2409T-B FUSE HOLDER FUSE LABEL

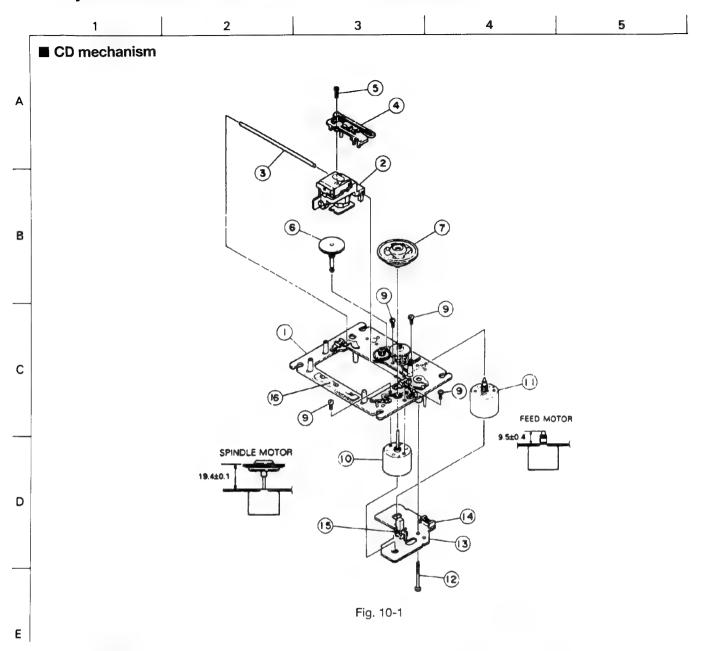
POWER TRANS

FUSE

LASER CAUTION

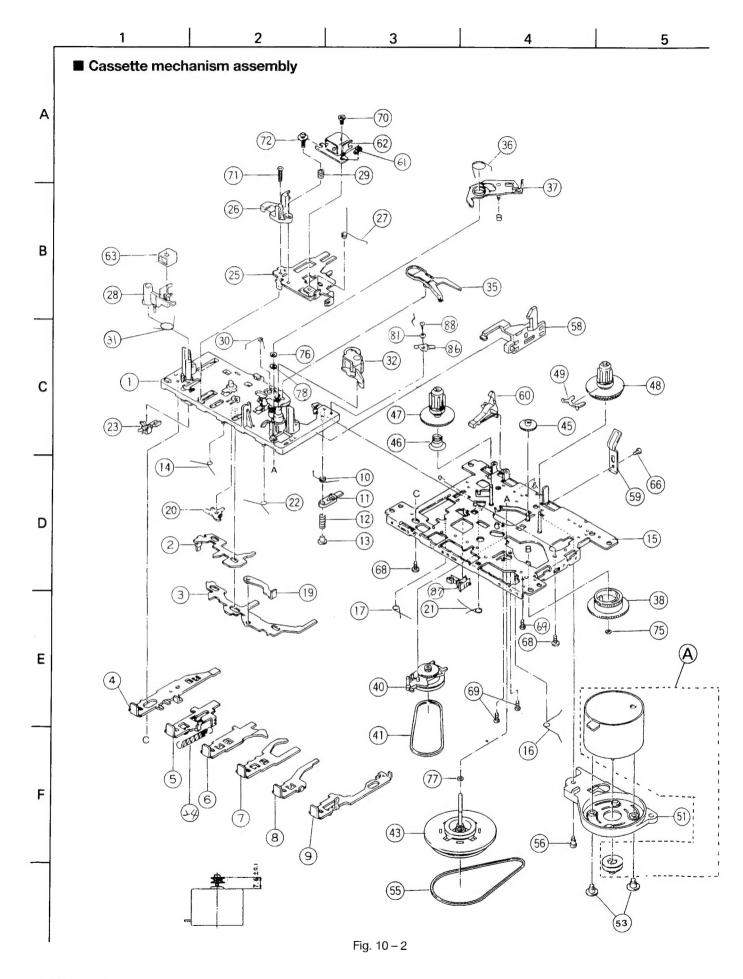
CD MECHA ASS'Y

10. Exploded View of Mechanism Assembly



CD mechanism parts list

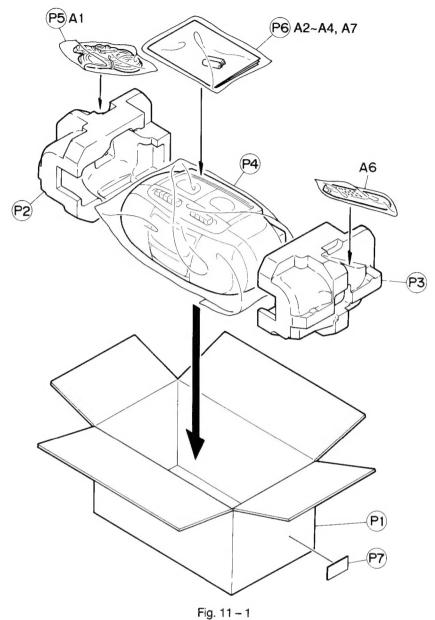
•	CD me	echanism parts list		BLOCK NO. M3	MM		
Δ	REF.	PARTS NO.	PARTS NAME	REMARKS	QTY	SUFFIX	CLR
	4 5 6 7 9 10 11	E406777-001 E307746-001 SDSF2006Z EPB-003A E75807-301	MECHA.BASE ASSY PICKUP ASS'Y GAIDE SHAFT CD RACK SCREW MECHA GIAR CD T.TABLE ASSY SCREW SP MOTOR MOTOR ASS'Y S.SCREW	CD LACK ASS'Y FOR MOTOR SPINDL MOTOR FEED MOTOR M.REAF SWITCH	1 1 1 1 1 1 1 1 4 1 1		
	13 14	EMW10190-001 EMV5109-006B ESB1100-005	P.C.BOARD 6P PLUG ASSY LEAF SWITCH	LEAF SWITCH	1 1 1		
	1	E407212-001	DAMPER		1		



• Cassette mechanism component parts list

BLOCK NO. M2MM

				BBOOK NO. F-			
A R	EF.	PARTS NO.	PARTS NAME	REMARKS	QTY	SUFFIX	CLR
		1921123026T	DC MOTOR ASS'Y		1		
	1		1		1 1		
	1	192114301ZT	BASE ASS'Y		1		
	2	19211409T	SWITCH ACTUATOR		1		1
	3	19211408T	LOCK CAM		1		
	4	19211422T	BUTTON LEVER		1		
	5	19211423T	BUTTON LEVER		1	11.0	
1 1	6	19211424T	BUTTON LEVER		1		
				Table 1 of the last of the las	1 1		
	7		BUTTON LEVER		1		
1 1		19211426T	BUTTON LEVER		1		
	9	19211461T	BUTTON LEVER		1		
	10	19211413T	P CONT. SPRING		1		
	11	19211455T	PAUSE LEVER (E)		1		1
		19211412T	SPRING		1		
		19211411T	PAUSE STOPPER		1		i
	1						
		19211414T	TORSION SPRING		1		
		192101501ZT	CHASSIS ASS'Y		1		
	16	19211416T	TORSION SPRING		1		
	17	19211417T	TORSION SPRING		1		
		182101159T	E KICK LEVER		1		
	- 1	19211420T	STOPPER		1		
-			TORSION SPRING				
	21	19211421T			1		
	22	19211415T	TORSION SPRING		1		
	23		LEAF SWITCH	640101149T	1		
	24	18210150T	P.B.LEV.SPRING		1		
	25		HEAD PANEL		1		
H	26	19210304AT	HEAD BASE		1		
	27	19210304X1	PANEL P SPRING		1		
							Į.
1	28	19210305T	MAGNET HEAD ARM		1		
	29	18210307T	AZIMUTH SPRING		1 1		
	30	19211418T	TORSION SPRING		1		
	31	19210310T	MG ARM SPRING		1		
	32	192104309T	P.ROLL. ARM ASY		1		
	35		SENSING LEVER		1		
			TORSION SPRING				
1		19212605T			1		ŀ
\vdash	37	192126502ZT	GEAR PLATE ASSY		1		
	38	19212602T	CAM GEAR		1		
	40	192107304T	RF CLUTCH ASS'Y		1		
	41	18210711T '	RF BELT		1		
	43	192109303ZT	FLYWHEEL ASS'Y		1		
l i		18211070T	F.FORWARD GEAR	1	1		
 			BACK T. SPRING				
	46				1		
	47		S. REEL ASS'Y		1 1		
	48	192105303T	T. REEL ASS'Y		1		
	49	19210506T	SENSOR		1		
	51	19211208T	MOTOR BRACKET		1		
	53		COLLAR SCREW		2		
	55		MAIN BELT		1		
		19211203T	MB SCREW				
			1		1		
		19211301T	EJ. SLIDE LEVER		1		
		18291001T	PACK SPRING		1		
	60	18211069T	REC.SAF.LEVER		1		
	61	9F0430204	B3 LUG PLATE		1		
	62	MS15R-AA2N1	R/P HEAD	MS15R-AA2N1	1		
		PHK-MSI-6A	E HEAD	PH-K380-MS16A	1		
-		91790000T		M2 X 3			
			TAPPING SCREW		1		
	1	96790000T	TAPPING SCREW	M2 X 5	2		
		99991809T	SPECIAL SCREW	M2 X 4.5	3		
	70	91150000T	SCREW(M2 X 3)	M2 X 3	1		
	71	90040000T	SCREW(M2 X 6)	M2 X 6	1		
		99220000T	SCREW(M2 X 7)	M2 X 7	1		
		94220000T	P.WASHER	1.2X3.8X0.3	1		
					1 1		
		99990313T	POLY WASHER	1.45X3.8X0.5	1		
		98820000T	POLY WASHER	2X3.5X0.4	1		
	78	99990003T	POLYSLIDER WAS.	2.1X4X0.13	1		
	81	19211437T	P ARM COLLAR		1		
		19211434T	P.ROLLER ARM		1		
			LEAF SWITCH	MSW-17820MVD0	1		
					4 11		1
	87	99992041T	SPECIAL SCREW	M2 X 3	1 1		



Packing parts list

_	,			BLOCK NO. M4M			
Δ	REF.	PARTS NO.	PARTS NAME	REMARKS	QTY	SUFFIX	CLR
	P 1 P 2 P 3 P 4 P 5	VPC5202-002 VPH1678-001 VPH1678-002 VPE3020-028 QPGA012-02505	CARTON CUSHION (L) CUSHION (R) POLY BAG POLY BAG	50010-562-08-01 50010-601-00-01 50010-602-00-01 74038-643-03-00 74009-233-04-00	1 1 1 1 1		
	P 6	VPE3026-004	POLY BAG CARTON LABEL	A4 SIZE 046838131769	1 1		

Accessories

BLOCK NO. M5MM

Δ	RE	F.	PARTS NO.	PARTS NAME	REMARKS	QTY	SUFFIX	CLR
	Α	1	QMP5520-183BS	POWER CORD		1	В	
Δ			QMP39F0-183	POWER CORD		1	E, EN, G	
	Α	2	VNN5197-671	INSTRUCTIONS	77301-078-01-01	1	В	
		1	VNN5197-271	INSTRUCTIONS		1	EN	
			VNN5197-251	INSTRUCTIONS		1	E	
П			VNN5197-261	INSTRUCTIONS		1	E, EN, G	
	A	3	E43486-340B	SAFETY INST SHE	77500-023-01-01	1	В	
	Α	4	BT-20135	WARRANTY CARD		1	G	
		1	BT-54003-1	WARRANTY CARD		1	8	
			BT-20066A	WARRANTY CARD		1	В	
	А	5	VGR0050-001	RMOCON	RM-RXQW35	1		
	Α	8	UM-3(DV)-2PSA	BATTERY		1		